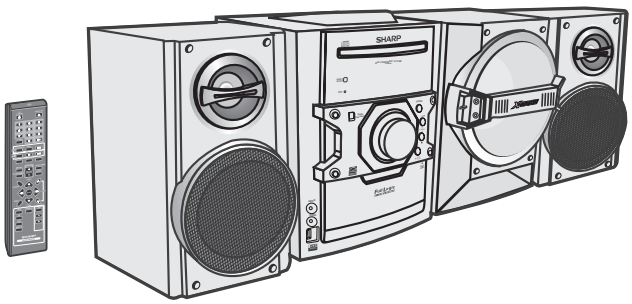
SHARP SERVICE MANUAL

No. SX948CDSW440N



MINI COMPONENT SYSTEM

MODEL CD-SW440N

CD-SW440N Mini Component System consisting of CD-SW440N (main unit), CP-S440N (speaker system) and CP-SW440N (subwoofer).

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

iPod is a trademark of Apple Inc.,
registered in the U.S. and other countries.

"Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

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PARTS GUIDE

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

PRECAUTIONS FOR USING LEAD-FREE SOLDER

1. Employing lead-free solder

"MAIN, POWER, DISPLAY/TAPE, SERVO, iPod, FRONT SPEAKER LED, SUBWOOFER LED PWB" of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWB and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Examples:

Indicates lead-free solder of tin, silver and copper.

2. Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.
As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40°C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

3. Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220°C which is higher than the conventional lead solder by 40°C,and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, since the land may be peeled of for the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.
Lead-free solder contains more tin, and the end of the soldering bit may be easily corrected. Make sure to turn on and off the power of the bit as required.
If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.
When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.
Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

Ref No.	Parts No.	Description
PWB-A	92LPWB7792MANS	MAIN
PWB-B	92LPWB7792PWRS	POWER (B1), DISPLAY/TAPE (B2)
PWB-C	RUITKA036AWZZ	SERVO
PWB-D	92LPWB7119PODS	iPod
PWB-E	92LPWB6514LEDS	FRONT SPEAKER LED
PWB-F	92LPWB7285LEDS	SUBWOOFER LED

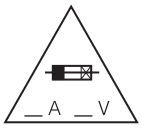
CHAPTER 1. GENERAL DESCRIPTION

[1] Important Service Safety Precaution

■ **CAUTION : "These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so".**

■ **WARNING**

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.



CAUTION: FOR CONTINUED
PROTECTION AGAINST FIRE
HAZARD, REPLACE ONLY WITH
SAME TYPE F801, F802 6A, 125V/
F803, F804 2A, 125V/
F805 5A, 125V/
F808 1.6A, 125V FUSES.

ATTENTION: POUR ASSURER
UNE LONGUE PROTECTION CONTRE
UN INCENDIE, REMPLACER SEULEMENT
PAR UN FUSIBLE DE F801, F802 6A, 125V/
F803, F804 2A, 125V/
F805 5A, 125V/
F808 1.6A, 125V FUSES.

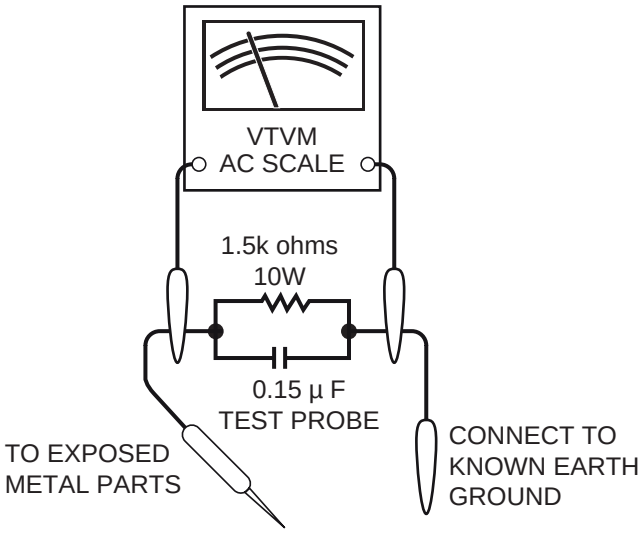
[2] Important Service Notes (for U.S.A only)

BEFORE RETURNING THE AUDIO PRODUCT
(Fire & Shock Hazard)

Before returning the audio product to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the audio product.
2. Inspect all protective devices such as insulating materials, cabinet, terminal board, adjustment and compartment covers or shields, mechanical insulators etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.

* Plug the AC line cord directly into a 120 volt AC outlet.
* Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15µF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as conduit or electrical ground connected to earth ground.
* Use a VTVM or VOM with 1000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor (See diagram).
* Connect the resistor connection to all exposed metal parts having a return path to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.



All check must be repeated with the AC line cord plug connection reversed.

Any reading of 0.3 volt RMS (this corresponds to 0.2 milliamp. AC.) Or more is excessive and indicates a potential shock hazard which must be corrected before returning the audio product to the owner.

[3] Specifications

General

Power source	AC 120 V ~ 60 Hz
Power consumption	102 W
Dimensions	Width: 9 - 7/16" (240 mm) Height: 12 - 7/16" (315.5 mm) Depth: 11 - 5/32" (283.2 mm)
Weight	13.9 lbs. (6.3 kg)

Amplifier

Output power	PMPO: 4500 watts Front Speakers RMS: Total 200 watts (100 watts per channel into 4 ohms at 1 kHz, 10% total harmonic distortion) FTC: 75 watts minimum RMS per channel into 4 ohms from 100 Hz to 20 kHz, 10% total harmonic distortion. Subwoofer RMS: 150 watts into 8 ohms at 70 Hz, 10% total harmonic distortion FTC: 130 watts RMS into 8 ohms from 50 Hz to 120 Hz, 10% total harmonic distortion.
Output terminals	Speakers: 4 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms) Video output : 1Vp-p
Input terminals	Audio In (audio signal): 250 mV/47 k ohms

CD player

Type	Single disc multi-play compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	Multi bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

Cassette deck

Frequency response	50 - 14,000 Hz (normal tape)
Signal/noise ratio	50 dB (playback)
Wow and flutter	0.35% (WRMS)

USB

USB host interface	● Complies with USB 1.1 (Full Speed)/ 2.0 Mass Storage Class. ● Support Bulk only and CBI protocol.
Support file	● MPEG 1 Layer 3 ● WMA (Non DRM)
Bitrate support	● MP3 (32 ~ 320 kbps) ● WMA (64 ~ 160 kbps)
Other	● Maximum total number of MP3/WMA files is 1024. ● Maximum total number of folders is 255 INCLUSIVE of root directory. ● The ID3TAG information supported are TITLE, ARTIST and ALBUM only. ● Supports ID3TAG version 1 and version 2.
File system support	● Support USB devices with Microsoft Windows/DOS/FAT 12/ FAT 16/ FAT 32. ● 2 kbyte block length for sector.

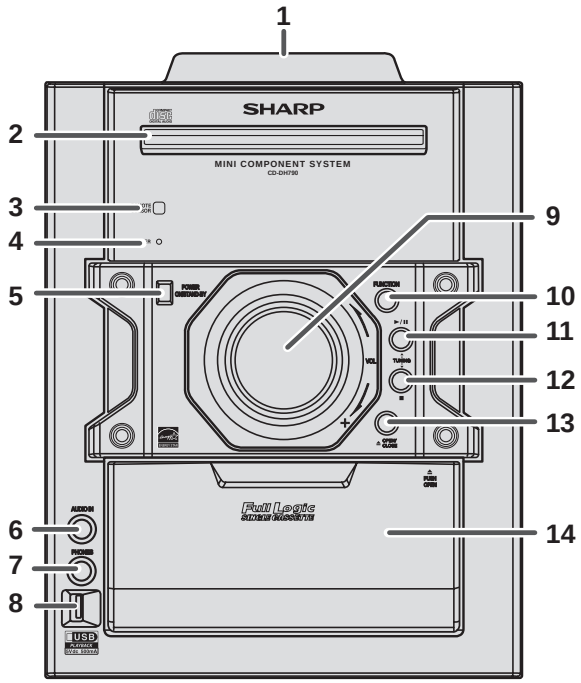
Tuner

Frequency range	FM: 87.5 - 108 MHz AM: 530 - 1,720 kHz

Speaker

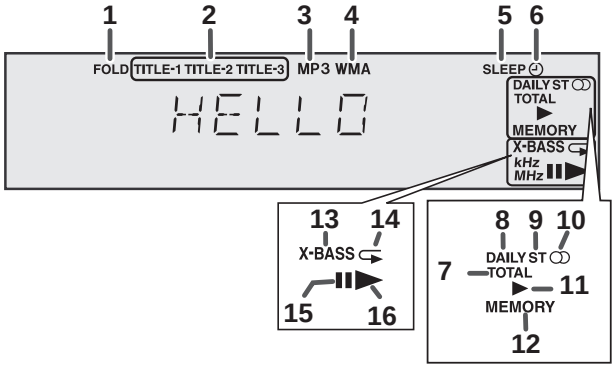
Front Speaker	
Type	2-way type speaker system 2" (5 cm) tweeter 5-1/8" (13 cm) woofer
Maximum input power	200 W
Rated input power	100 W
Impedance	4 ohms
Dimensions	Width: 7-1/16" (180 mm) Height: 11-13/16" (300 mm) Depth: 8" (204 mm)
Weight	6.0 lbs. (2.7 kg)/each
Subwoofer	
Type	Subwoofer system 8" (16 cm) woofer
Maximum input power	300 W
Rated input power	150 W
Impedance	8 ohms
Dimensions	Width: 9-1/16" (230 mm) Height: 11-13/16" (300 mm) Depth: 12" (305 mm)
Weight	9.7 lbs. (4.4 kg)

[4] Names Of Parts



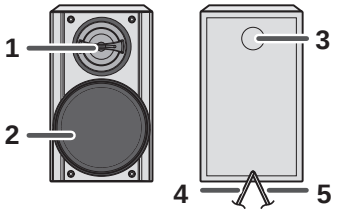
■ Front panel

1. iPod Docking Station
2. Disc Tray
3. Remote Sensor
4. Timer Indicator
5. Power On/Stand-by Button
6. Audio In Jack
7. Headphone Jack
8. USB Terminal
9. Volume Control
10. FUNCTION Button
11. Disc / USB / iPod Play or Pause / Tape Play / Tuning Up Button
12. Disc / USB / Tape Stop / Tuning Down Button
13. Disc Tray Open / Close Button
14. Cassette Compartment



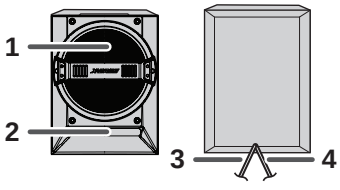
■ Display

1. MP3/WMA Folder Indicator
2. MP3/WMA Title Indicators
3. MP3 Indicator
4. WMA Indicator
5. Sleep Indicator
6. Once Timer Play Indicator
7. MP3/WMA Total Indicator
8. Daily Timer Play Indicator
9. FM Stereo Mode Indicator
10. FM Stereo Receiving Indicator
11. Tape play Indicator
12. Memory Indicator
13. Extra Bass Indicator
14. Disc/USB Repeat Play Indicator
15. Disc/USB Pause Indicator
16. Disc/USB Play Indicator



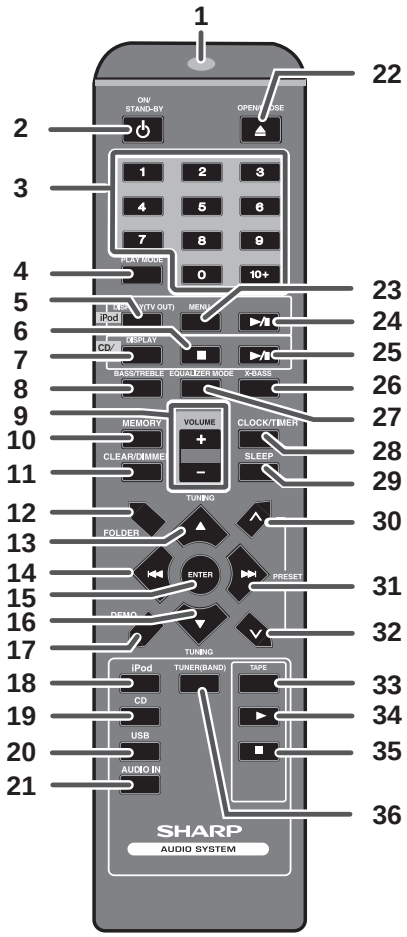
■ Front speaker system

1. Tweeter
2. Woofer
3. Bass Reflex Duct
4. Speaker Wire
5. Speaker Light-Up Wire



■ Subwoofer

1. Subwoofer
2. Bass Reflex Duct
3. Subwoofer Light-Up Wire
4. Speaker Wire



■ Remote control

1. Remote Control Transmitter
2. On/Stand-by Button
3. Direct Search Buttons
4. Play Mode Button
5. iPod Display (TV OUT) Button
6. Disc/USB Stop Button
7. Disc/USB Display Button
8. Bass/Treble Button
9. Volume Up or Down Buttons
10. Memory Button
11. Clear/Dimmer Button
12. Folder Button
13. Tuning Up, iPod Cursor Up Button
14. CD Track Down or Fast Reverse, Time Down Button
15. Enter Button
16. Tuning Down, iPod Cursor Down Button
17. Demo Button
18. iPod Button
19. Disc Button
20. USB Button
21. Audio In Button
22. Open/Close Button
23. iPod Menu Button
24. iPod Play/Pause Button
25. Disc/USB Play/Pause Button
26. X-Bass Button
27. Equaliser Mode Button
28. Clock/Timer Button
29. Sleep Button
30. Tuner Preset Up Button
31. CD Track Up or Fast Forward, Time Up Button
32. Tuner Preset Down Button
33. Tape Button
34. Tape Play Button
35. Tape Stop Button
36. Tuner (Band) Button

CHAPTER 2. ADJUSTMENTS

[1] Mechanism Section

- Driving Force Check

Torque Meter	Specified Value
Play: TW-2111	Tape 1: Over 90 g

- Torque Check

Torque Meter	Specified Value
Play: TW-2111	29 to 75 g.cm
Fast Forward: TW-2231	55 to 170 g.cm
Rewind: TW-2231	55 to 170 g.cm

- Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	Variable Resistor in motor.	3,000 ± 90 Hz Speaker	Speaker Terminal (Load resistance: 6 ohms)

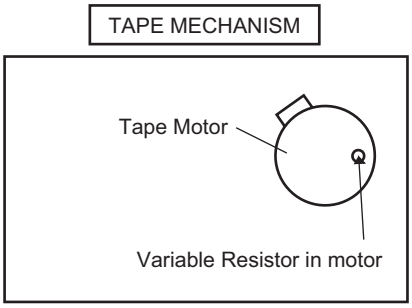


Figure 1

CHAPTER 3. MECHANISM BLOCKS

[1] Caution On Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.

STEP	REMOVAL	PROCEDURE		FIGURE
1	Top Cabinet	1. Screw..... 2. Flat Cable.....	(A1)x5 (A2)x1	1 3
2	Side Panel (Left/ Right)	2. Screw.....	(B1)x8	1
3	iPod PWB	1. Screw.....	(C1)x2	2
4	iPod Transit PWB	1. Screw..... 2. Socket.....	(D1)x1 (D2)x2	3
5	CD Changer unit	1. Hook ..... 2. Socket..... 3. Flat Cable.....	(E1)x2 (E2)x1 (E3)x1	3
6	Rear Panel with Fan motor	1. Screw.....	(F1)x9	3
7	Front Panel	1. Screw..... 2. Flat Cable ..... 3. Socket ..... 4. Hook	(G1)x2 (G2)x2 (G3)x4 (G4)x2	4 3,4 3,4 4
8	Main PWB	1. Screw ..... 2. Socket	(H1)x4 (H2)x1	3, 4 4
9	Power PWB	1. Screw	(J4)x4	4
10	Tape Mechanism	1. Screw ..... 2. Flat Cable	(K1)x6 (K2)x1	5
11	Audio In PWB	1. Screw	(L1)x1	6
12	Display PWB	1. Knob ..... 2. Nut ..... 3. Washer..... 4. Screw	(M1)x1 (M2)x1 (M3)x1 (M4)x4	6
13	CD PWB	1. Screw ..... 2. Flat Cable ..... 3. Socket	(N1)x2 (N2)x2 (N3)x1	7
14	Changer Mechanism Unit	1. Screw ..... 2. Changer Chassis	(P1)x4 (P2)x1	8
15	CD Mechanism	1. Screw	(Q1)x4	9

Note:

After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of the connector so as to protect the optical pickup from electrostatic damage.

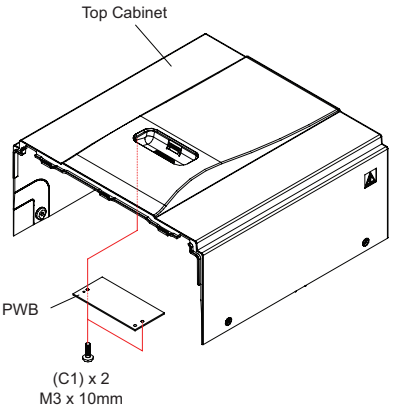
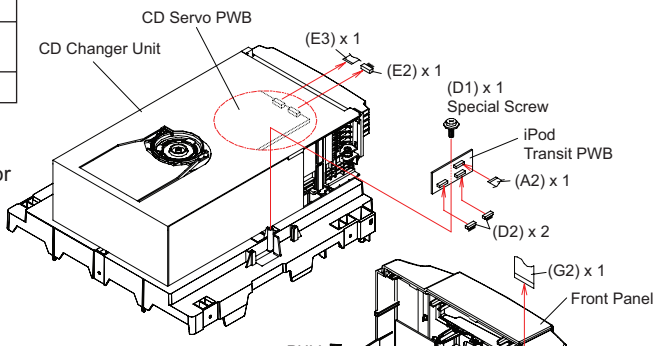


Figure 2



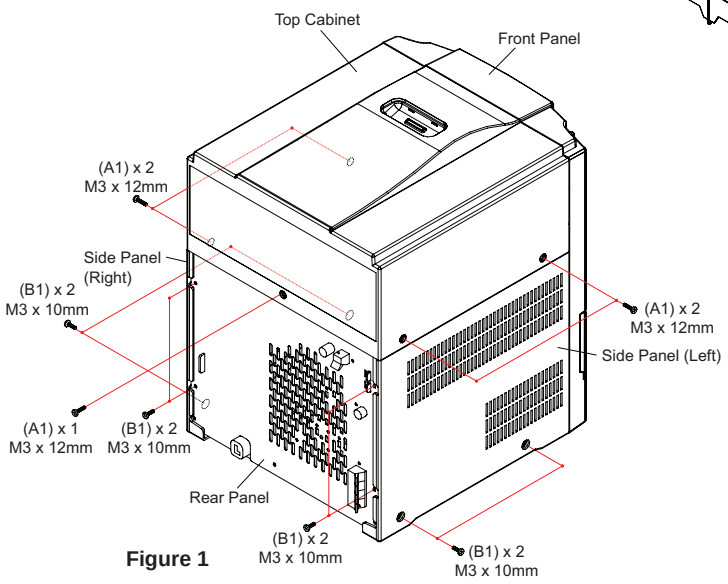


Figure 1

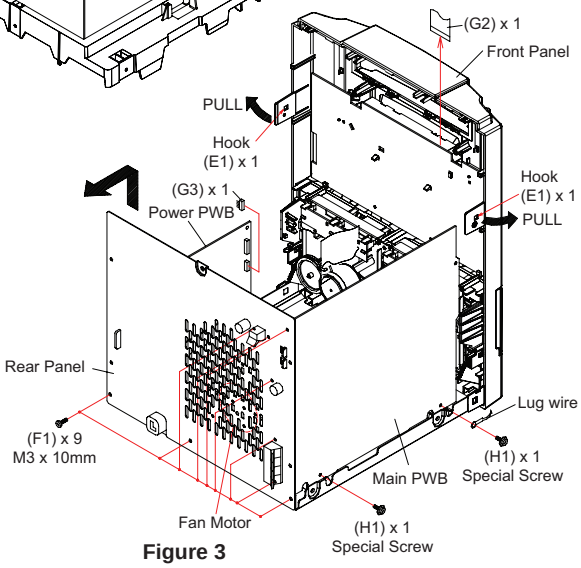
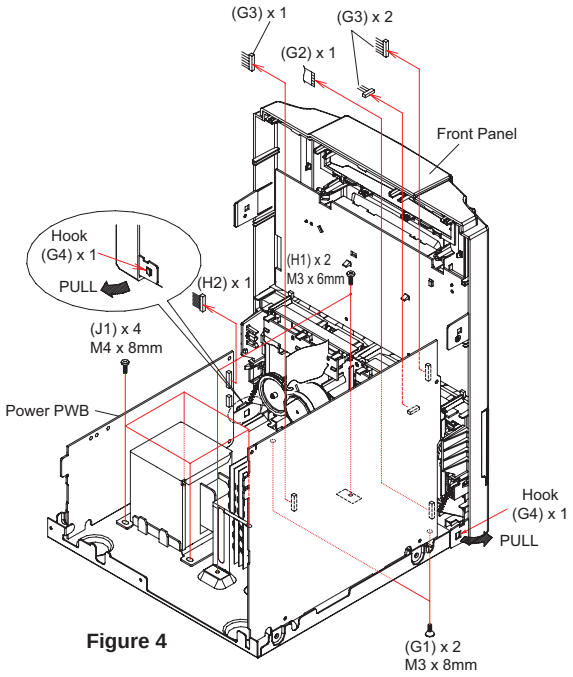


Figure 3



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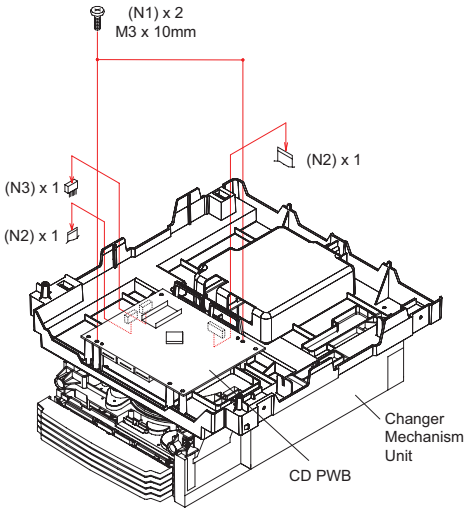


Figure 7

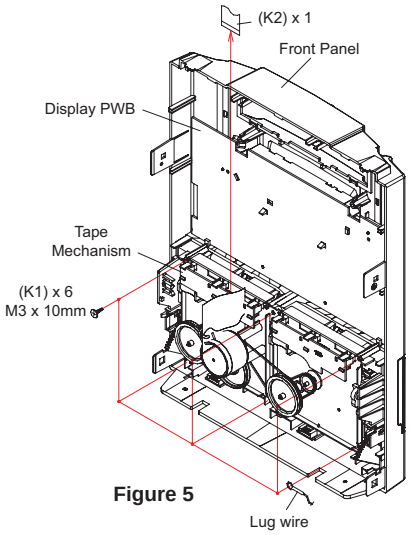


Figure 5

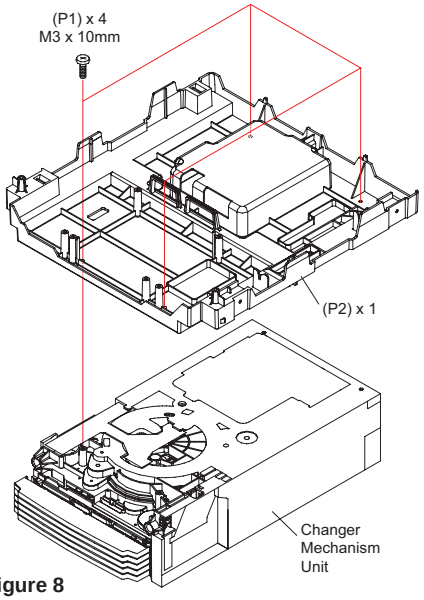


Figure 8

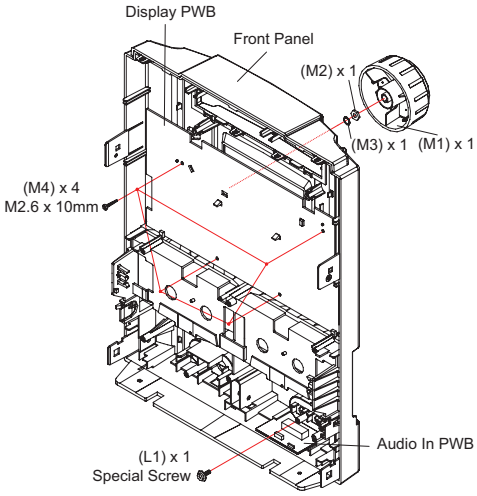


Figure 6

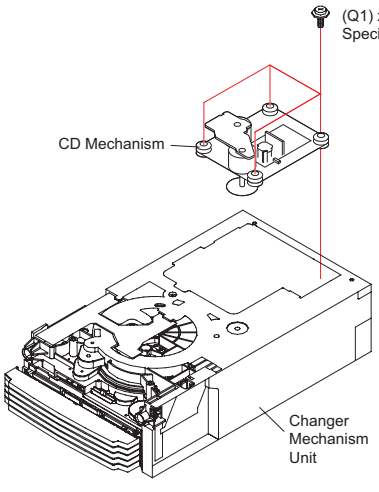


Figure 9

CP-S440N

STEP	REMOVAL	PROCEDURE	FIGURE
1	LED PWB	1. Front Panel Assy..... (A1)X1 2. Socket..... (A2)X1 3. Screw..... (A3)X2	10
2	Woofer	1. Screw..... (B1)X4	10
3	Tweeter	1. Screw..... (C1)X2	10

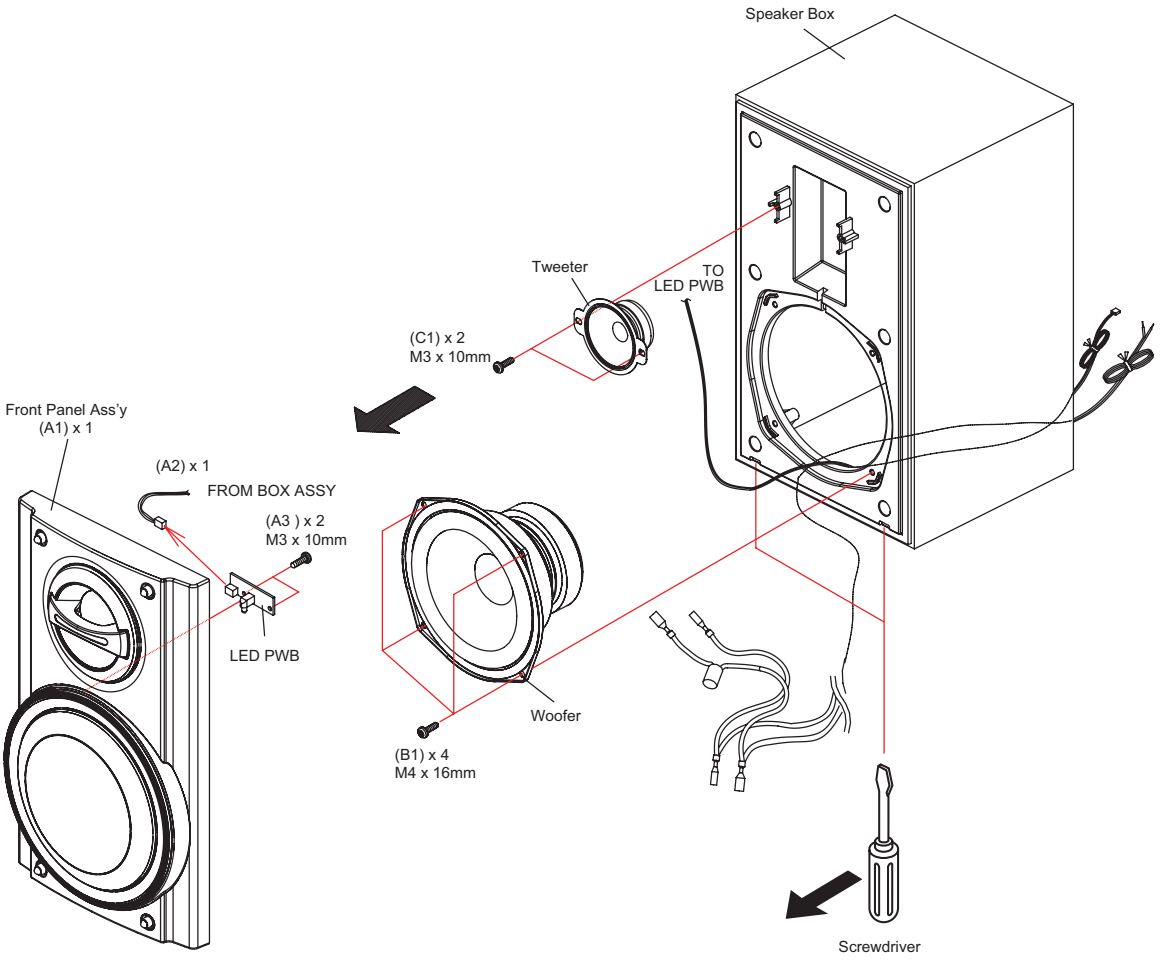
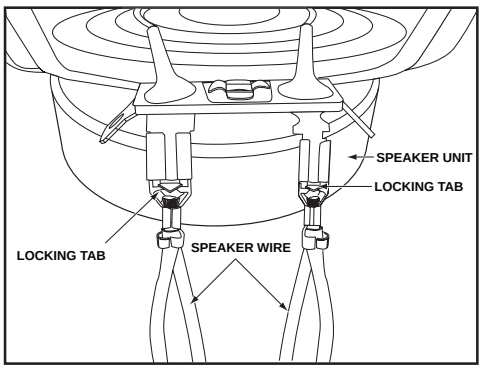


Figure 10



CAUTION:
TO REMOVE SPEAKER UNIT, PRESS THESE LOCKING TABS TO RELEASE SPEAKER WIRES.

CP-SW440N

STEP	REMOVAL	PROCEDURE	FIGURE
1	LED PWB	1. Front Panel Assy..... (A1)X1 2. Socket..... (A2)X1 3. Screw..... (A3)X2	11
2	Woofer	1. Screw..... (B1)X4	11

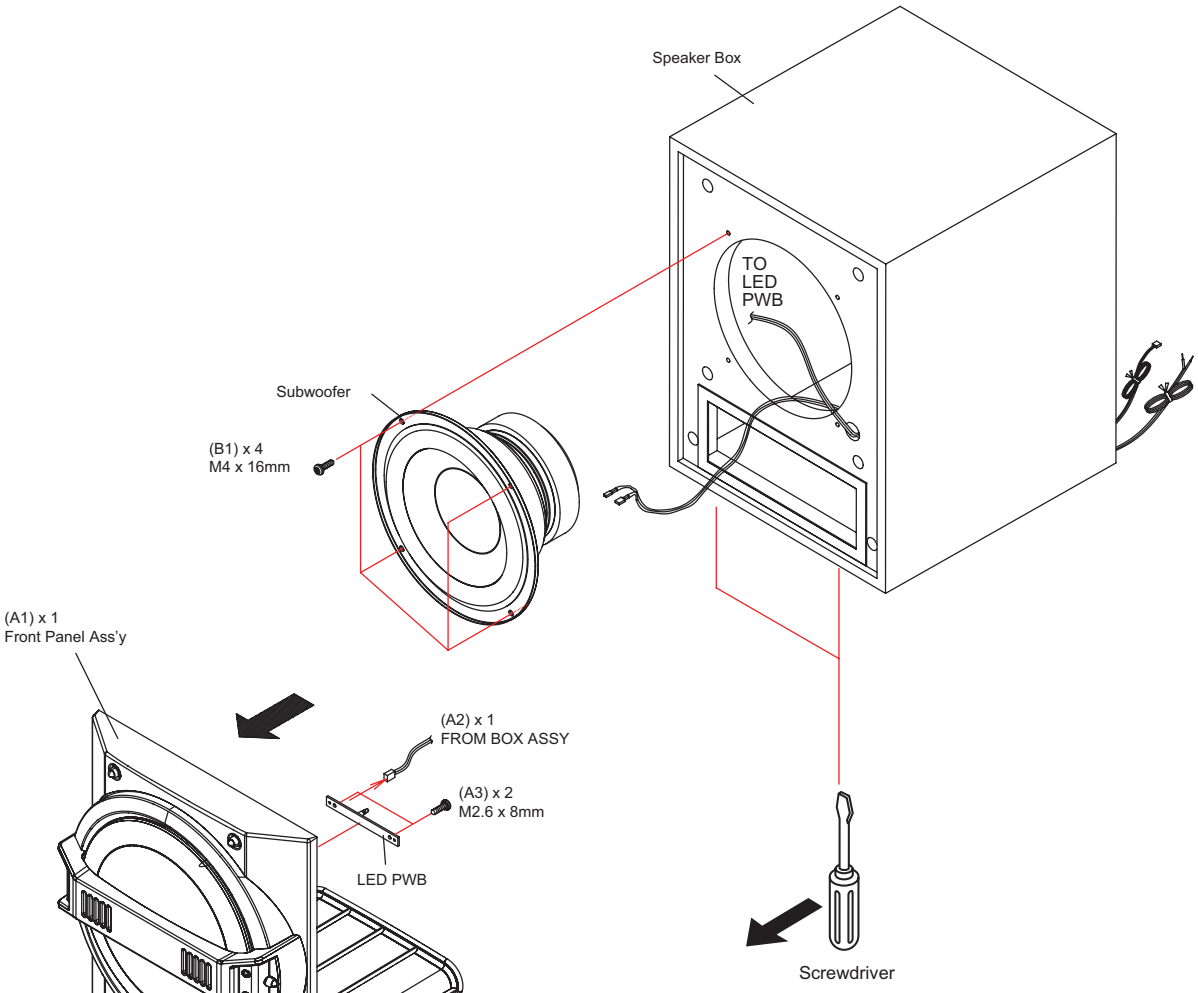
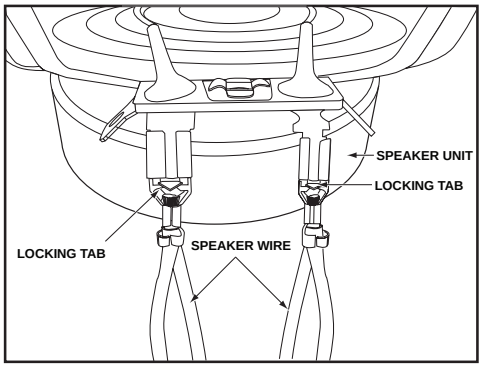


Figure 11



CAUTION:
TO REMOVE SPEAKER UNIT, PRESS THESE LOCKING TABS TO RELEASE SPEAKER WIRES.

CHAPTER 4. DIAGRAMS

[1] Main Block Diagram

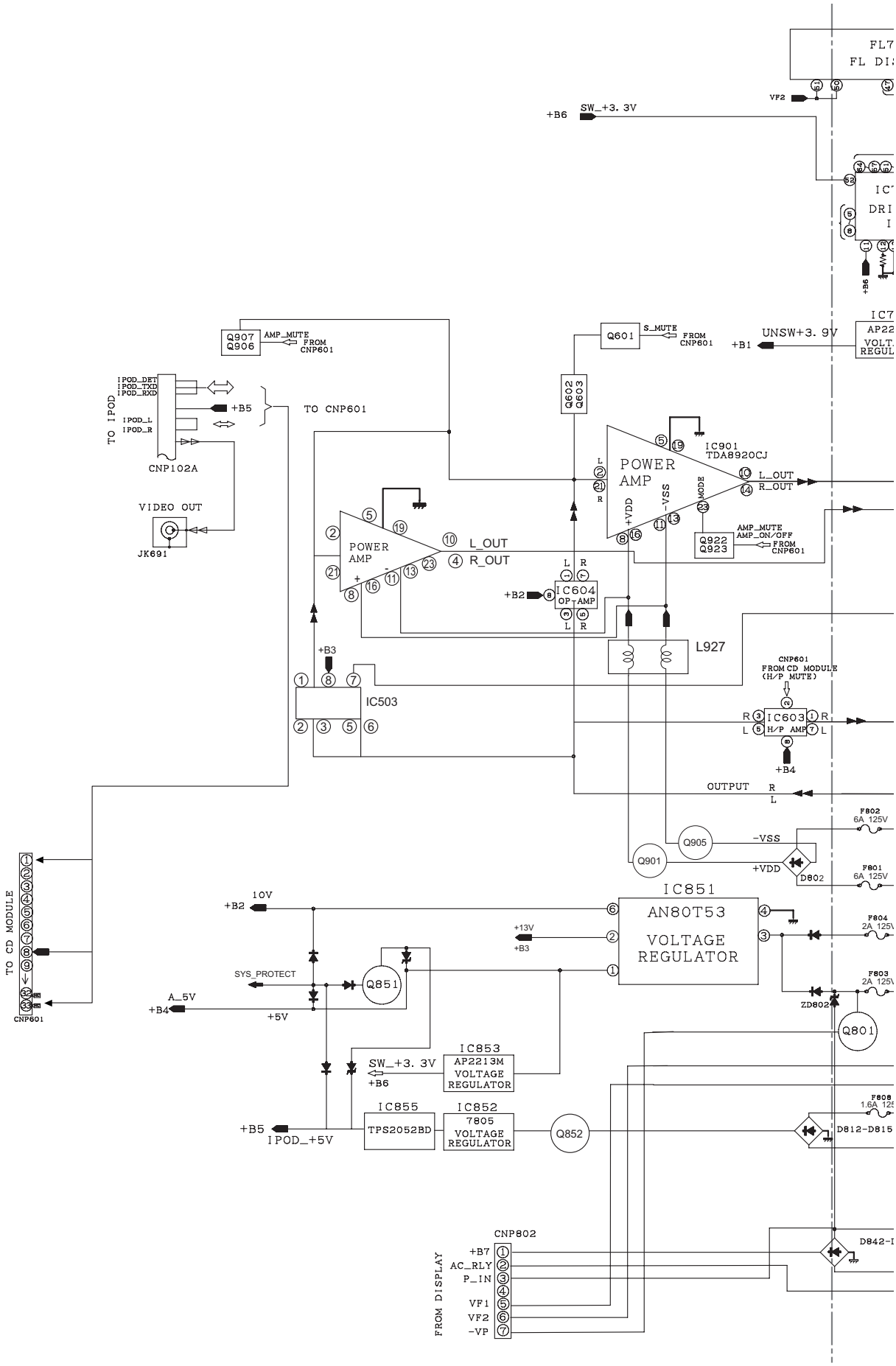


Figure 4-1: MAIN BLOCK DIAGRAM (1/2)

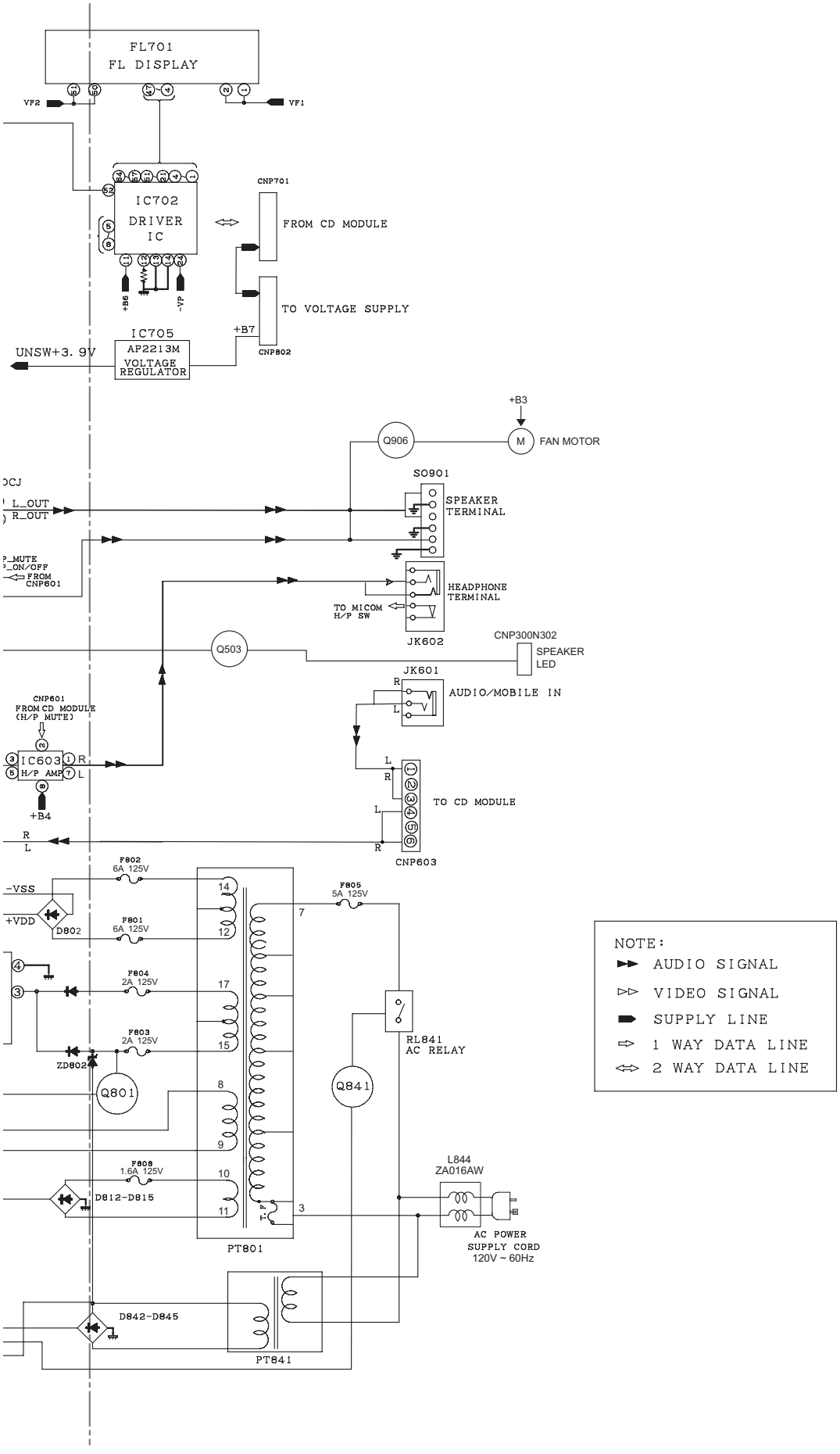


Figure 4-2: MAIN BLOCK DIAGRAM (1/2)

CHAPTER 5. CIRCUIT DESCRIPTION

[1] Waveforms Of Servo Circuit

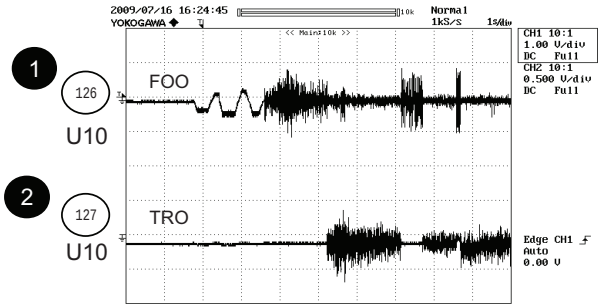


Figure 1

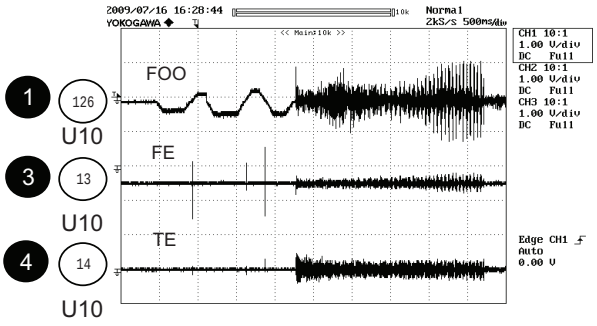


Figure 2

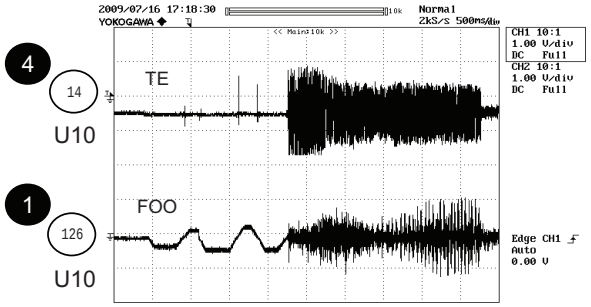


Figure 3

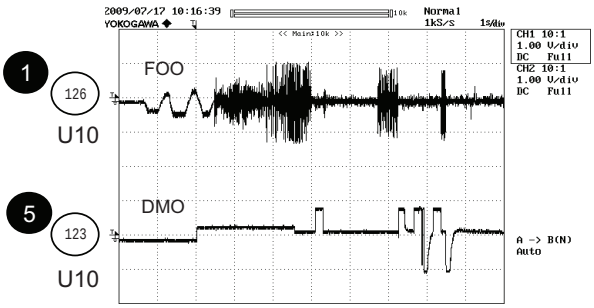


Figure 4

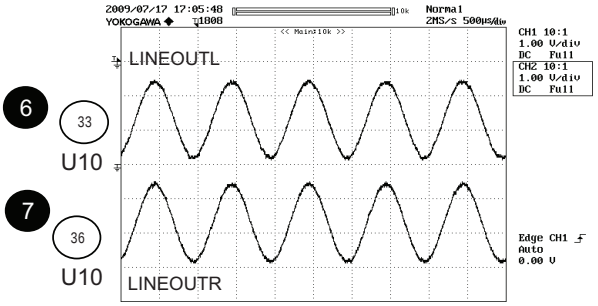


Figure 5

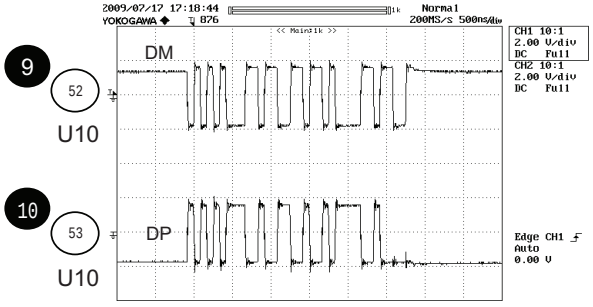


Figure 6

[2] Voltage

IC701				
PIN NO	VOLTAGE (V)		PIN NO	VOLTAGE (V)
1	-26.66		33	-26.68
2	-26.66		34	-29.10
3	-26.66		35	-26.68
4	-26.66		36	-21.10
5	3.15		37	-17.68
6	3.15		38	-22.10
7	3.06		39	-29.10
8	3.15		40	-24.25
9	3.15		41	-19.40
10	3.15		42	-26.66
11	3.15		43	-24.25
12	1.45		44	-24.57
13	1.45		45	-24.27
14	0.00		46	-19.43
15	-17.50		47	-26.68
16	-29.09		48	-26.68
17	-29.10		49	-29.10
18	-29.10		50	-22.10
19	-29.10		51	-22.10
20	-29.10		52	3.15
21	-29.10		53	-29.10
22	-26.90		54	-29.10
23	-15.26		55	-29.10
24	-29.25		56	-29.10
25	-29.10		57	-26.68
26	-29.10		58	-26.68
27	-19.75		59	-26.68
28	-29.10		60	-26.68
29	-19.70		61	-26.68
30	-21.84		62	-26.68
31	-19.55		63	-26.68
32	-15.23		64	-26.68

IC901				
PIN NO	VOLTAGE (V)		PIN NO	VOLTAGE (V)
1	2.53		13	-24.48
2	0.00		14	0.00
3	2.44		15	11.45
4	24.15		16	24.35
5	0.00		17	-24.29
6	-24.08		18	-24.15
7	-15.95		19	0.00
8	24.17		20	24.09
9	11.46		21	0.00
10	0.00		22	0.00
11	-24.38		23	2.67
12	-12.10			

IC851	
PIN NO	VOLTAGE (V)
1	5.12
2	13.03
3	18.53
4	0.00
5	19.65
6	10.05
7	8.51

IC852	
PIN NO	VOLTAGE (V)
1	11.05
2	0.69
3	5.70

IC853	
PIN NO	VOLTAGE (V)
1	5.12
2	5.12
3	3.29
4	1.92
5	0.00
6	0.00
7	0.00
8	0.00

IC902	
PIN NO	VOLTAGE (V)
1	0.00
2	5.12
3	2.52
4	2.57
5	2.42
6	2.52
7	0.00
8	5.12
9	0.00
10	2.54
11	2.57
12	5.12
13	0.00
14	5.12

IC702	
PIN NO	VOLTAGE (V)
1	12.13
2	12.23
3	3.79
4	2.49
5	0.50
6	0.50
7	0.50
8	0.50

IC604	
PIN NO	VOLTAGE (V)
1	5.10
2	5.06
3	4.94
4	0.00
5	4.94
6	5.06
7	5.09
8	10.04

IC603	
PIN NO	VOLTAGE (V)
1	2.02
2	2.02
3	2.02
4	0.00
5	2.02
6	2.02
7	2.04
8	5.12

IC855	
PIN NO	VOLTAGE (V)
1	0.50
2	5.70
3	3.16
4	0.00
5	3.17
6	5.09
7	5.70
8	3.17

U10

PIN NO	VOLTAGE (V)	PIN NO	VOLTAGE (V)	PIN NO	VOLTAGE (V)	PIN NO	VOLTAGE (V)
1	3.38	33	1.53	65	1.23	97	NC
2	1.79	34	1.53	66	NC	98	NC
3	1.58	35	1.53	67	NC	99	0.71
4	1.60	36	1.53	68	NC	100	NC
5	1.60	37	0.00	69	NC	101	NC
6	1.60	38	3.34	70	141m	102	NC
7	1.60	39	NC	71	0.00	103	1.25
8	3.39	40	NC	72	NC	104	0.72
9	1.59	41	NC	73	NC	105	0.72
10	1.19	42	NC	74	NC	106	NC
11	0.00	43	NC	75	NC	107	NC
12	1.12	44	NC	76	NC	108	NC
13	1.18	45	0.77	77	NC	109	NC
14	1.38	46	1.53	78	NC	110	0.00
15	0.81	47	0.77	79	NC	111	5.80
16	3.34	48	1.53	80	NC	112	0.00
17	3.34	49	1.72	81	NC	113	3.34
18	1.79	50	2.11	82	NC	114	0.00
19	1.67	51	2.08	83	NC	115	1.77
20	2.31	52	30.4m	84	0.00	116	3.34
21	0.00	53	2.82	85	3.34	117	NC
22	0.00	54	3.34	86	0.72	118	NC
23	3.33	55	0.00	87	NC	119	NC
24	1.78	56	0.00	88	NC	120	1.58
25	3.34	57	3.34	89	NC	121	1.57
26	1.27	58	0.00	90	NC	122	3.34
27	0.72	59	2.19	91	NC	123	1.57
28	0.00	60	0.00	92	1.30	124	0.00
29	1.77	61	0.41	93	1.13	125	NC
30	0.00	62	3.34	94	0.71	126	1.57
31	1.53	63	3.34	95	0.71	127	1.57
32	1.53	64	1.22	96	NC	128	233m

IC401

PIN NO	VOLTAGE (V)	PIN NO	VOLTAGE (V)	PIN NO	VOLTAGE (V)
1	0.00	9	0.00	17	25.80m
2	0.00	10	200.10m	18	0.00
3	0.00	11	0.00	19	0.00
4	0.78	12	0.00	20	2.80
5	2.79	13	6.87	21	0.77
6	0.00	14	4.13	22	0.00
7	0.00	15	0.00	23	0.00
8	25.80m	16	0.00	24	0.00

IC503

PIN NO	VOLTAGE (V)
1	6.11
2	6.11
3	6.05
4	0.00
5	1.64
6	1.65
7	1.64
8	12.19

IC301

PIN NO	VOLTAGE (V)	PIN NO	VOLTAGE (V)	PIN NO	VOLTAGE (V)
1	2.53	9	11.46	17	-24.29
2	0.00	10	0.00	18	-24.15
3	2.44	11	-24.38	19	0.00
4	24.15	12	-12.10	20	24.09
5	0.00	13	-24.48	21	0.00
6	-24.08	14	0.00	22	0.00
7	-15.95	15	11.45	23	2.67
8	24.17	16	24.35		

CHAPTER 6. CIRCUIT SCHEMATICS AND PARTS LAYOUT

[1] Notes On Schematic Diagram

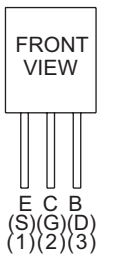
- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with “Fusible” is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means pico-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage is used".
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type

- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
  1. In the tuner section,
     indicates AM
     indicates FM stereo
  2. In the main section, a tape is being playback.
  3. In the power section, a tape is being playback.
  4. In the CD section, the CD is stopped.

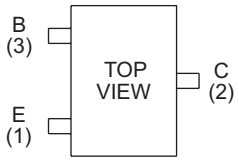
REF. NO	DESCRIPTION	POSITION
VR701	VOLUME	MAX -- MIN
SW701	ON/STAND-BY	ON -- OFF
SW702	FUNCTION	ON -- OFF
SW703	DISC/USB/TAPE STOP/TUNING DOWN	ON -- OFF
SW704	DISC/USB/iPod PLAY or PAUSE/ TAPE PLAY/TUNING UP	ON -- OFF
SW705	OPEN/CLOSE	ON -- OFF

- Parts marked with “⚠” (⊏ ═ ═ ═ ⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

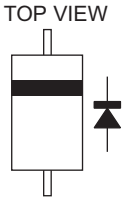
[2] Types Of Transistor And LED



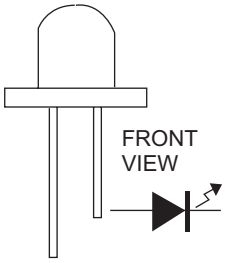
S8550
KTA1274Y
S8050
KTC3199
KTA1266
KTC3203Y



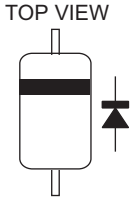
KRA102S
KRC107
KRC104S
H1A
KTA1504GR
KTC3875GR
KRA107S



1N4004
DRL204F
MA111

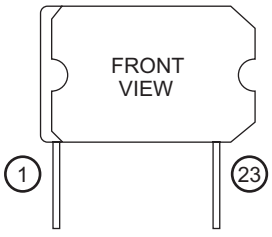


343VC3F

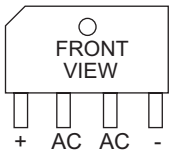


HSS4148

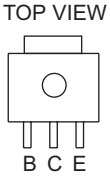
B772
KIA7805A
050N60P



TDA8920CJ



10XB60F



HD

[3] Schematic Diagram

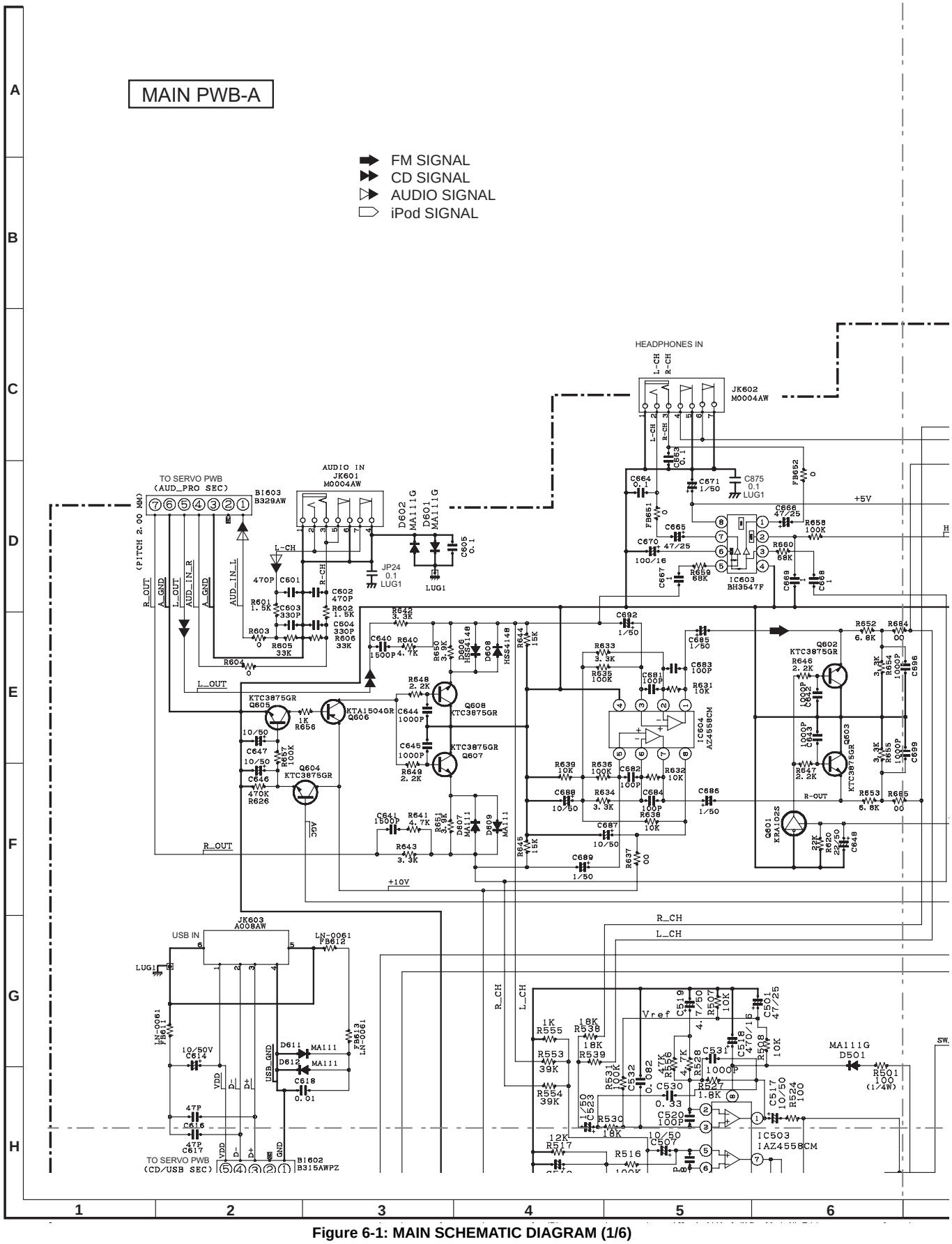


Figure 6-1: MAIN SCHEMATIC DIAGRAM (1/6)

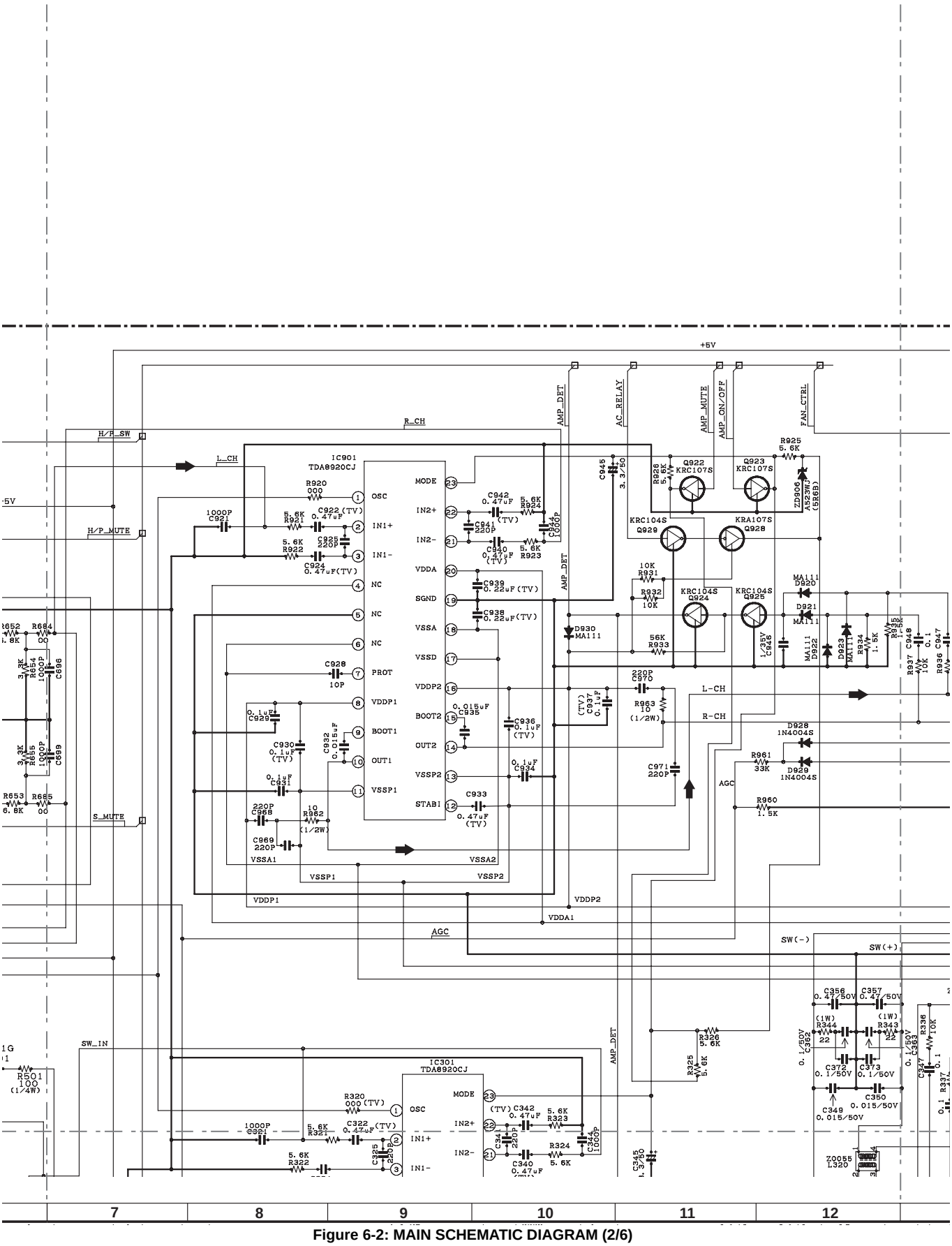


Figure 6-2: MAIN SCHEMATIC DIAGRAM (2/6)

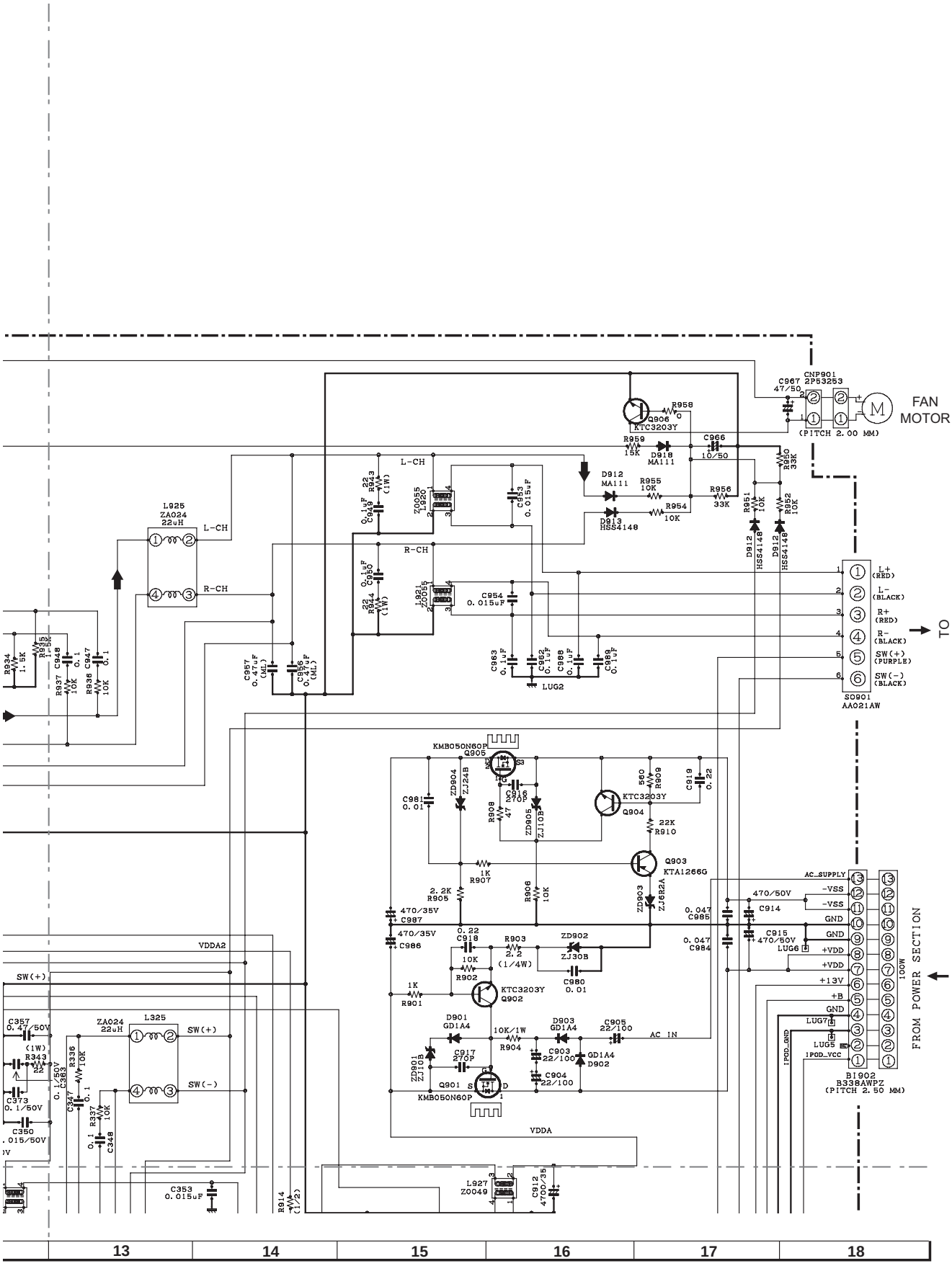


Figure 6-3: MAIN SCHEMATIC DIAGRAM (3/6)

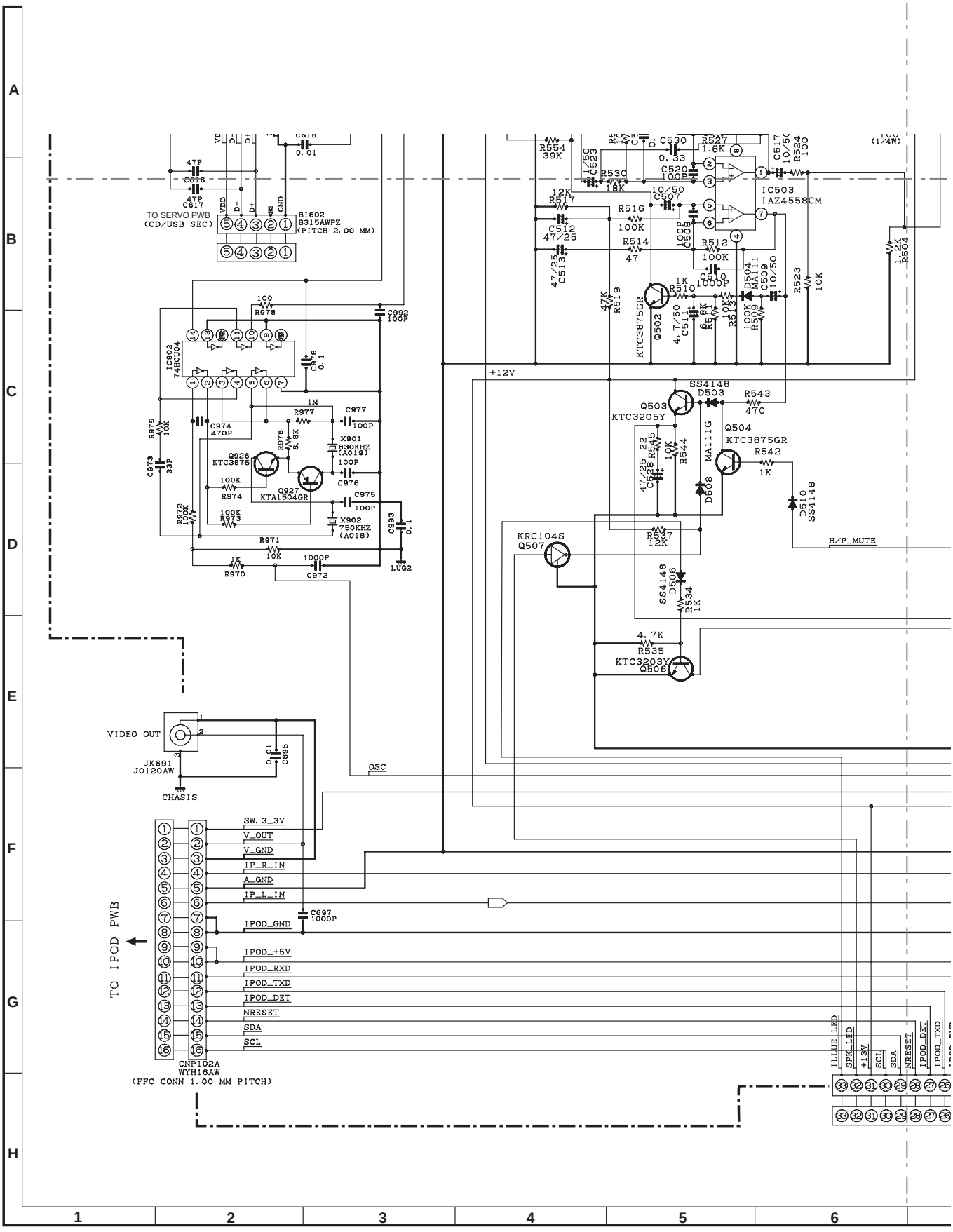


Figure 6-4: MAIN SCHEMATIC DIAGRAM (4/6)

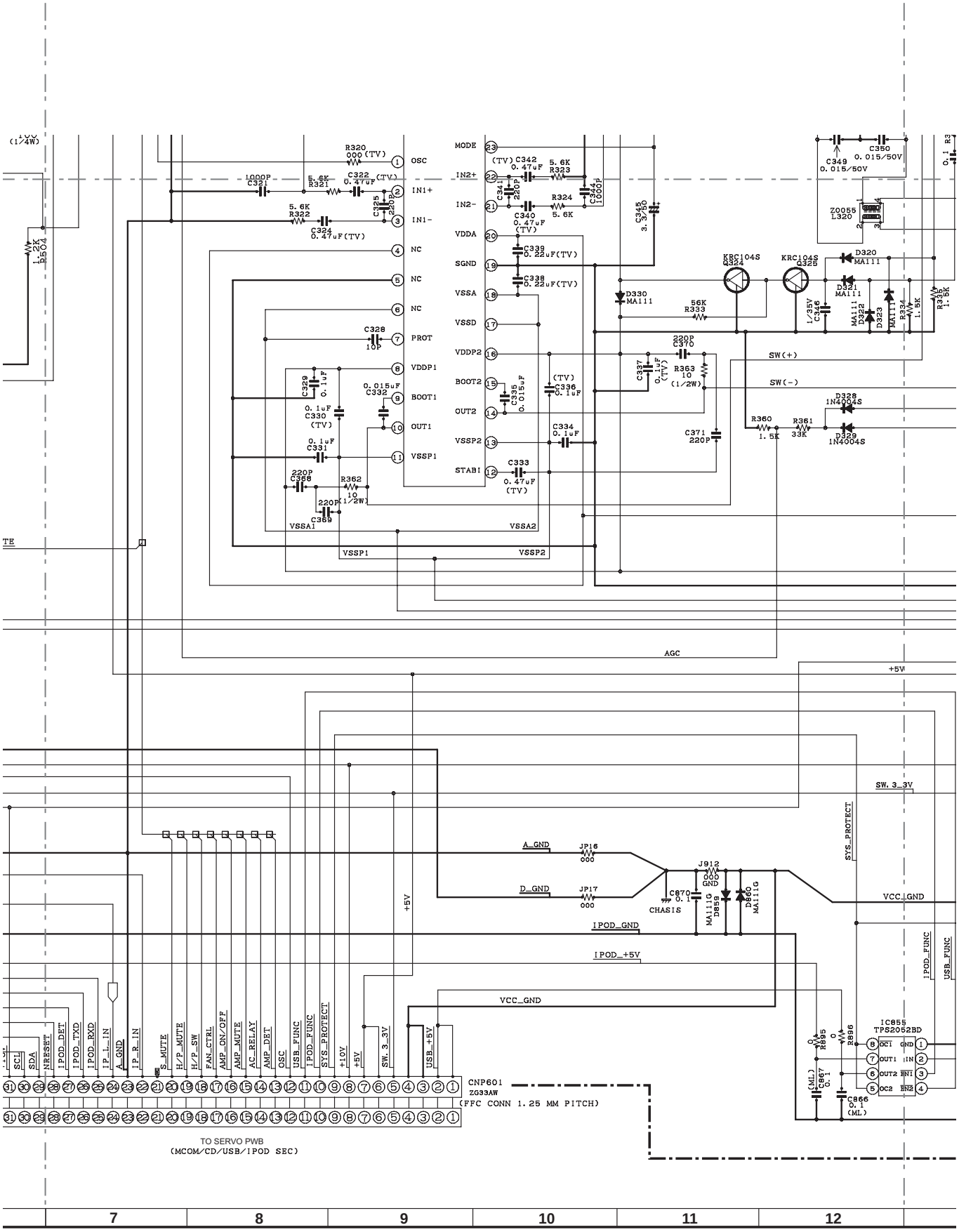


Figure 6-5: MAIN SCHEMATIC DIAGRAM (5/6)

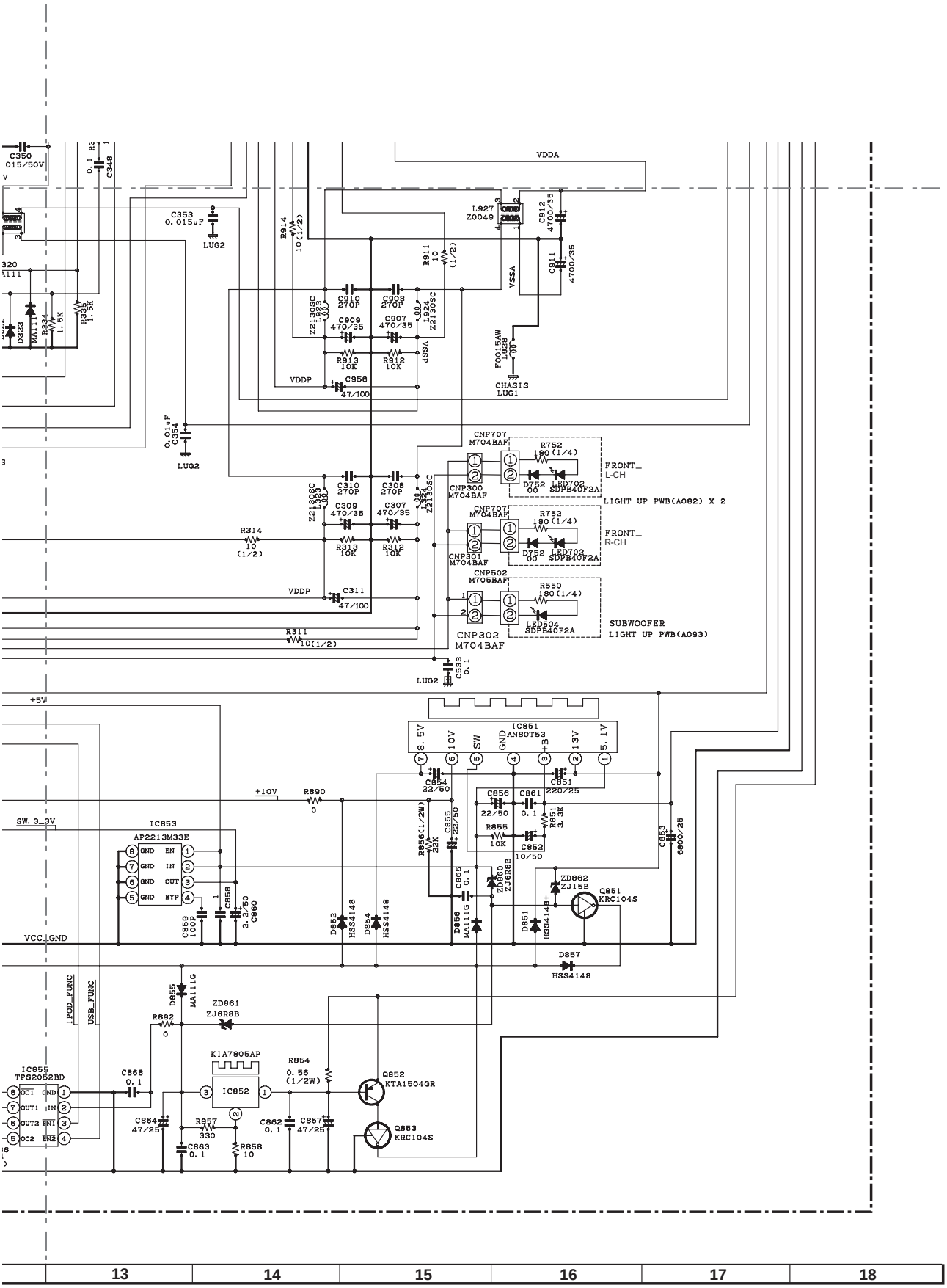


Figure 6-6: MAIN SCHEMATIC DIAGRAM (6/6)

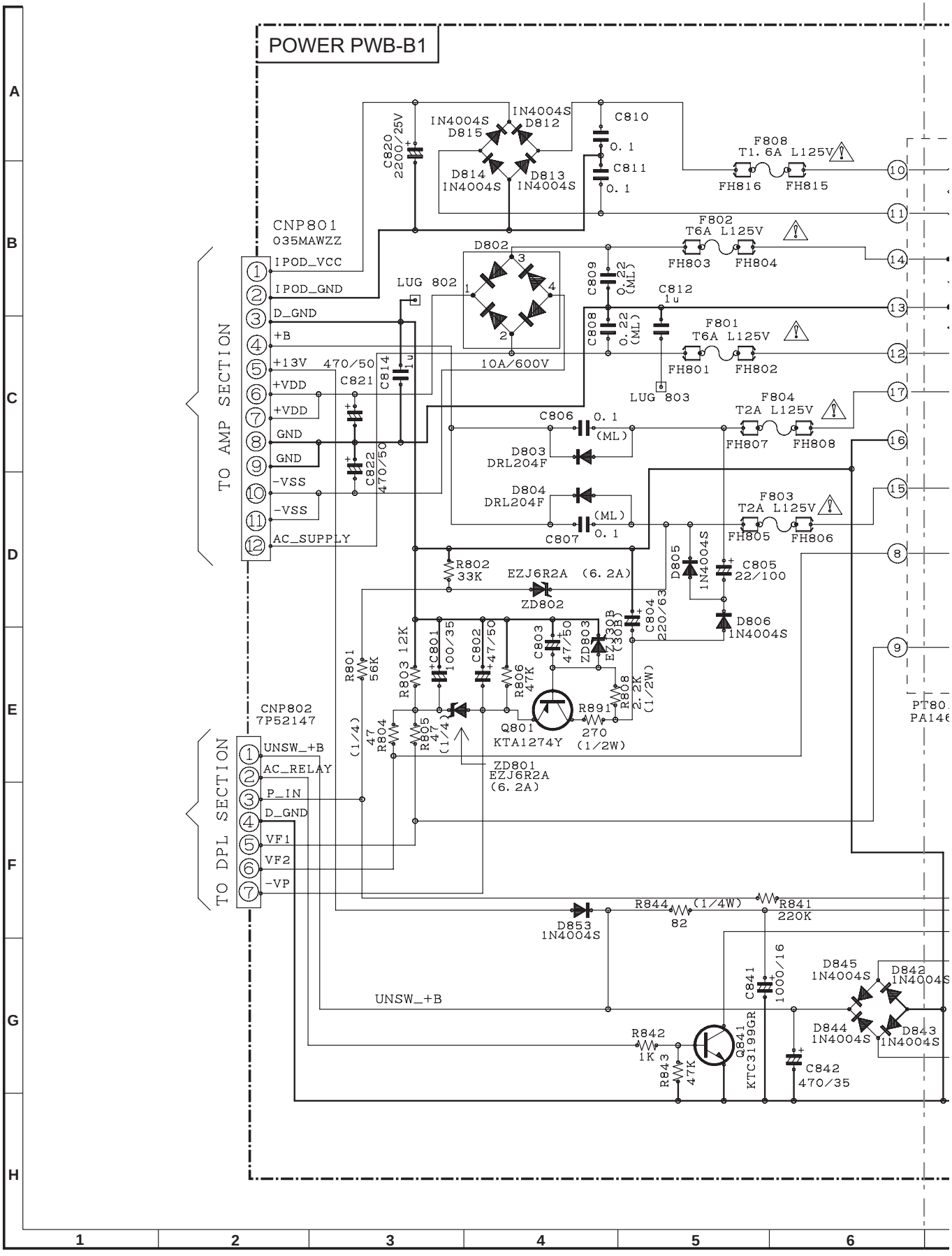


Figure 6-7: POWER SCHEMATIC DIAGRAM (1/2)

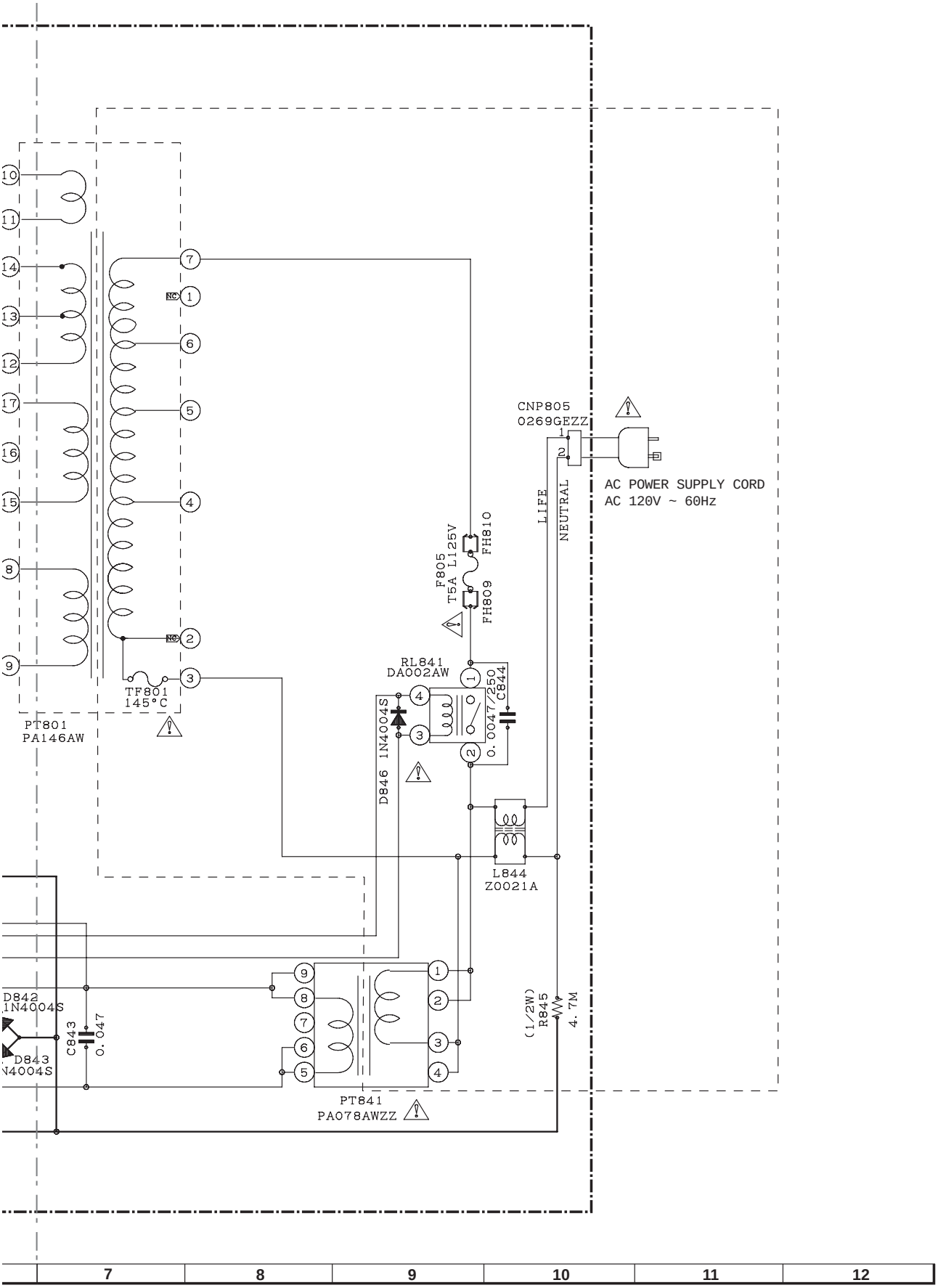


Figure 6-8: POWER SCHEMATIC DIAGRAM (2/2)

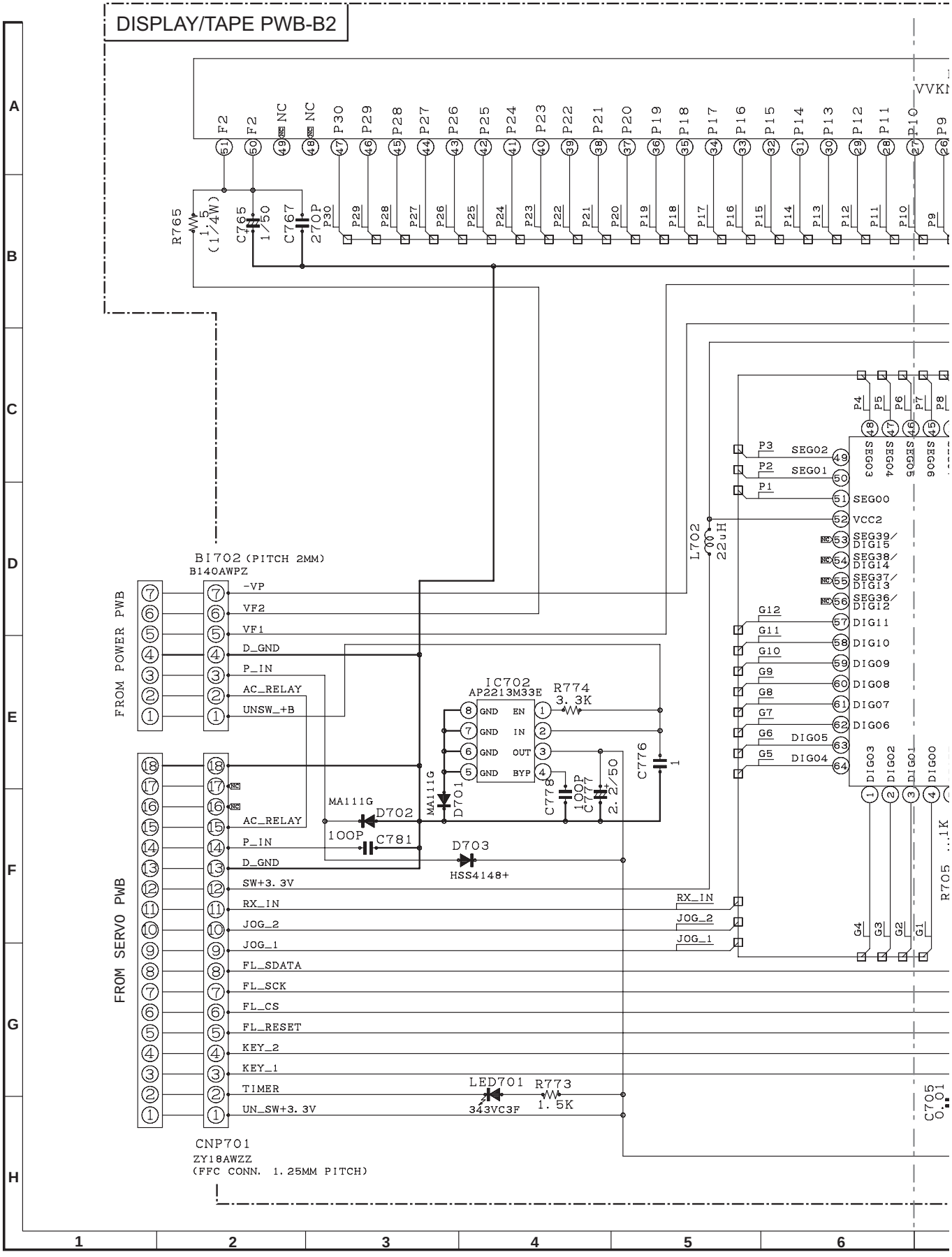
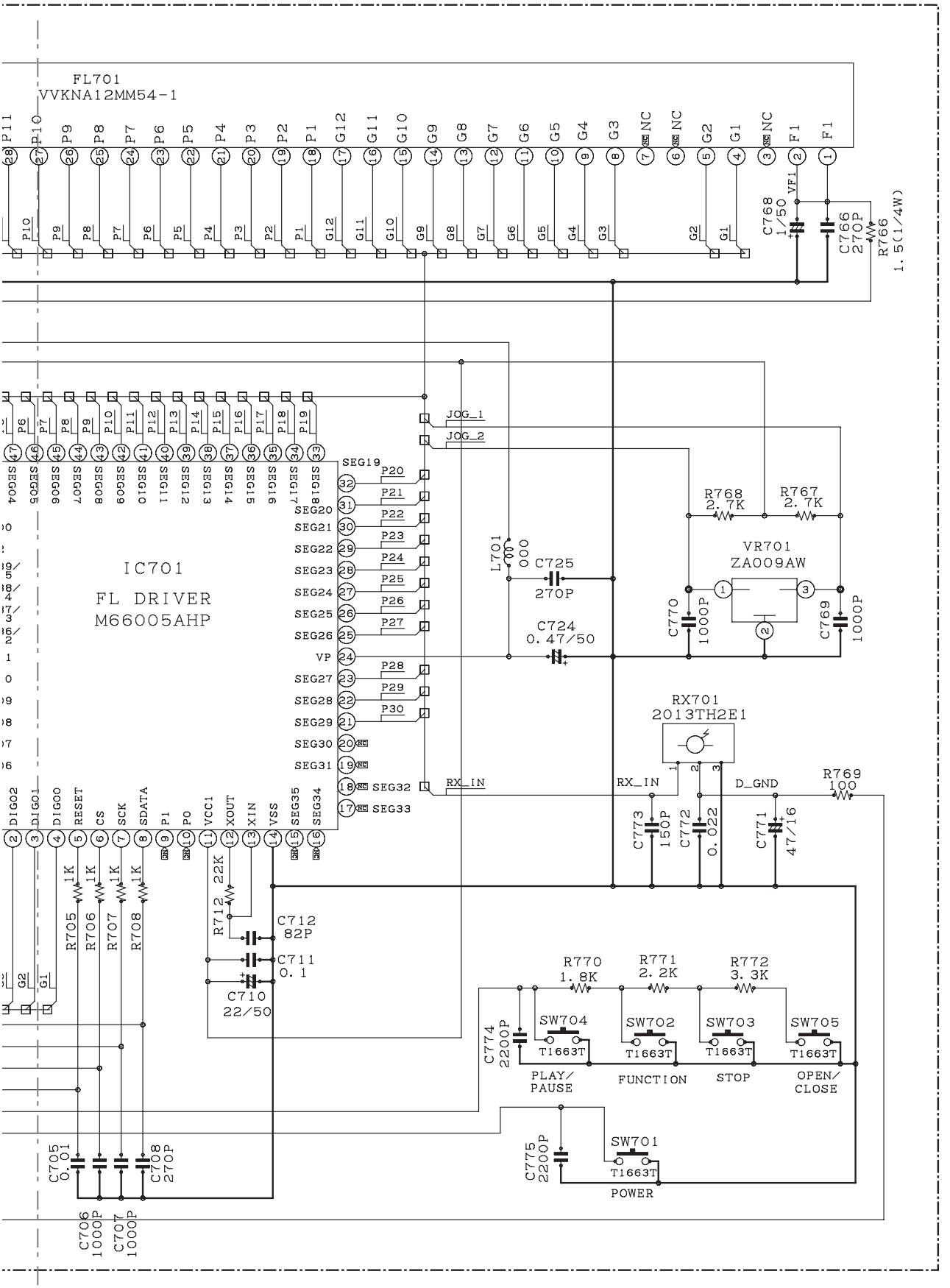


Figure 6-9: DISPLAY/TAPE SCHEMATIC DIAGRAM (1/2)



7	8	9	10	11	12

Figure 6-10: DISPLAY/TAPE SCHEMATIC DIAGRAM (2/2)

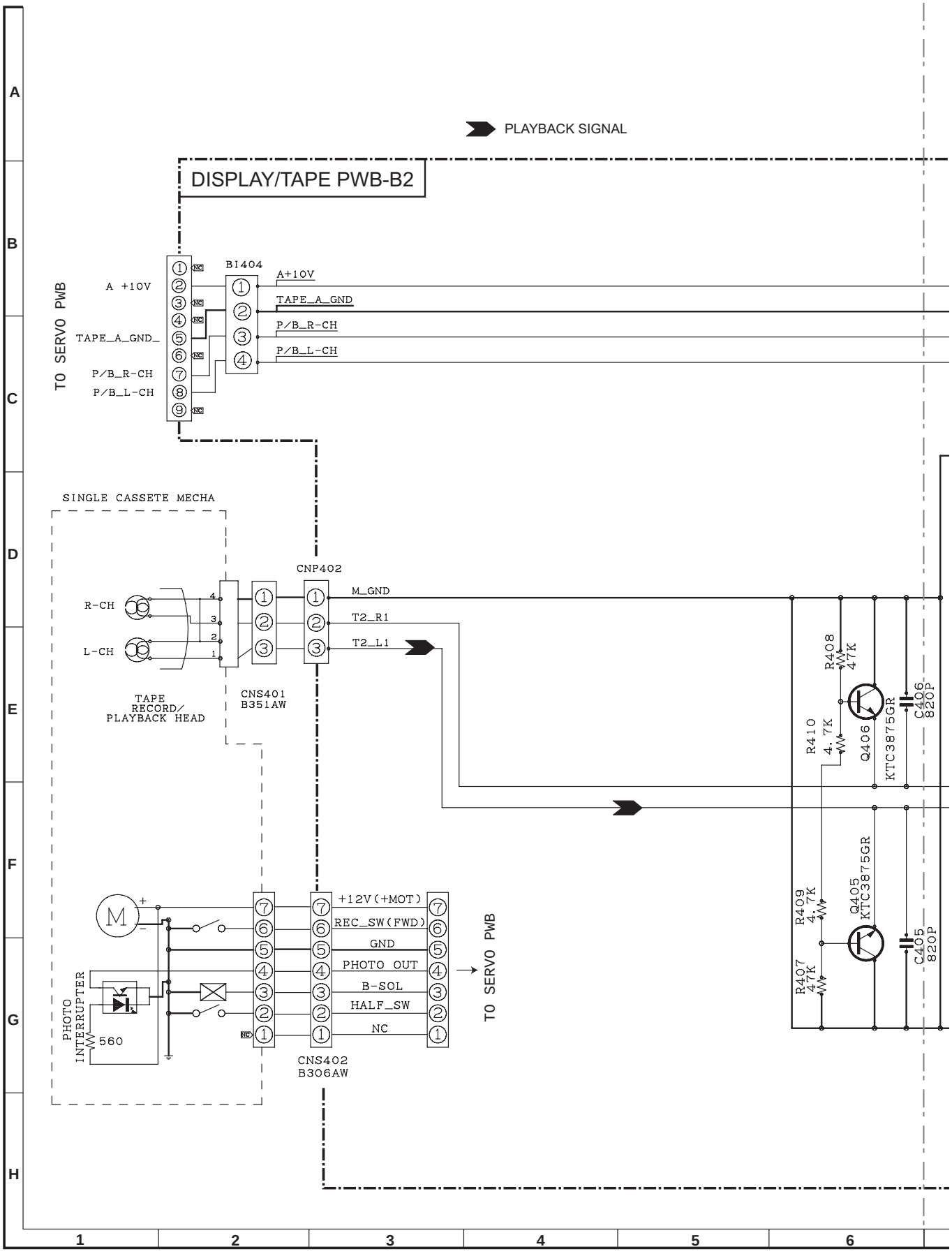


Figure 6-11: DISPLAY/TAPE SCHEMATIC DIAGRAM (1/2)

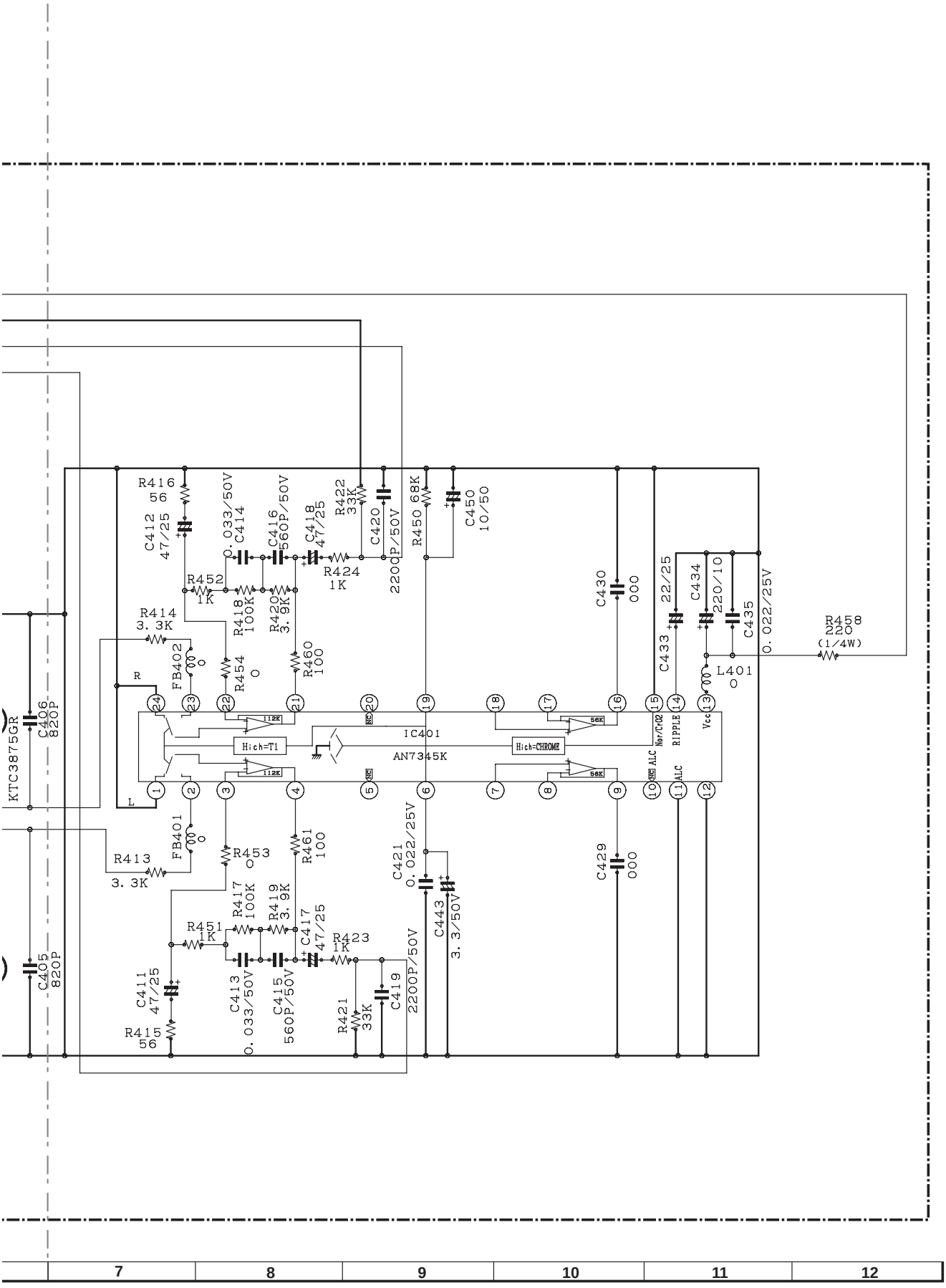


Figure 6-12: DISPLAY/TAPE SCHEMATIC DIAGRAM (2/2)

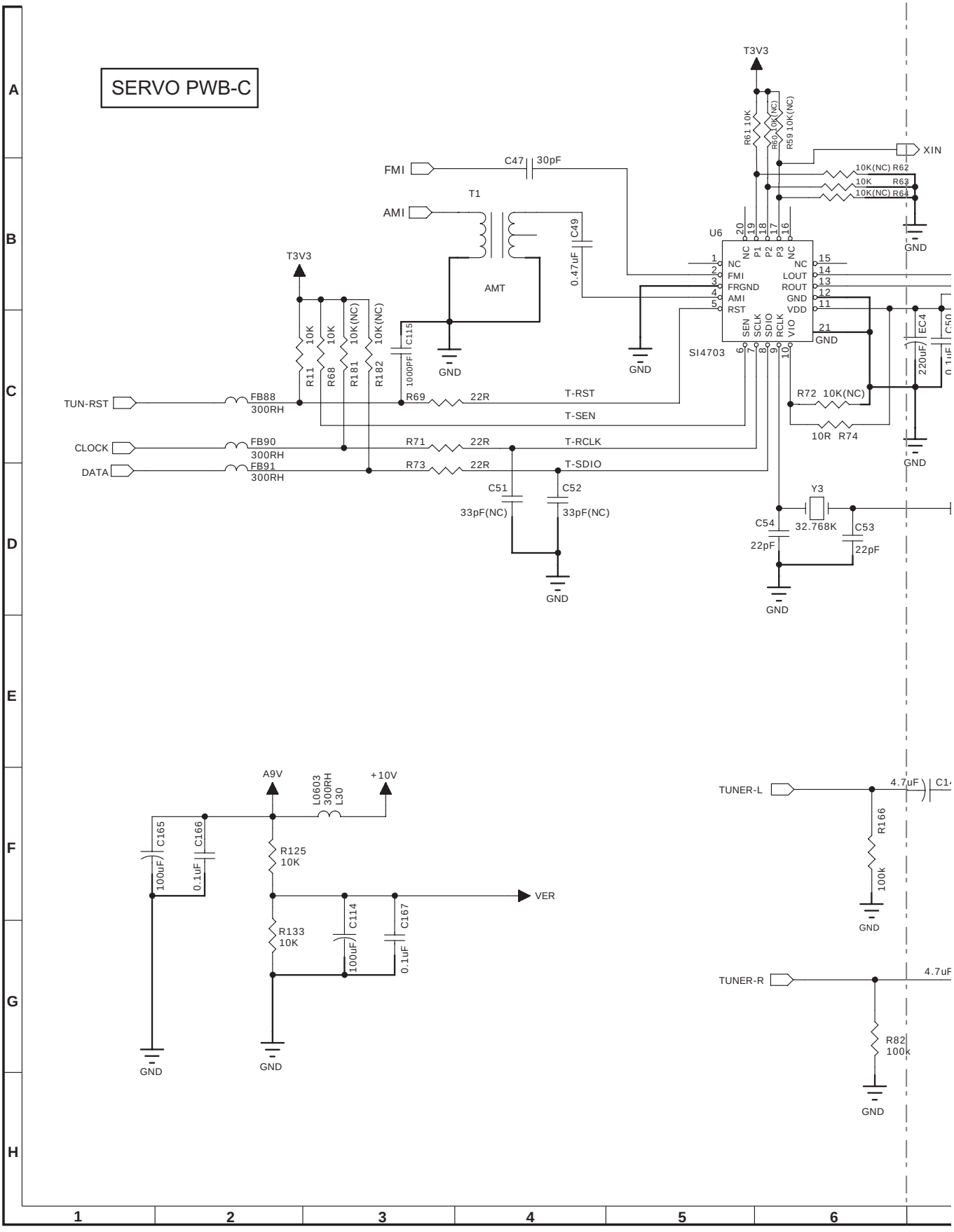


Figure 6-13: SERVO SCHEMATIC DIAGRAM (1/6)

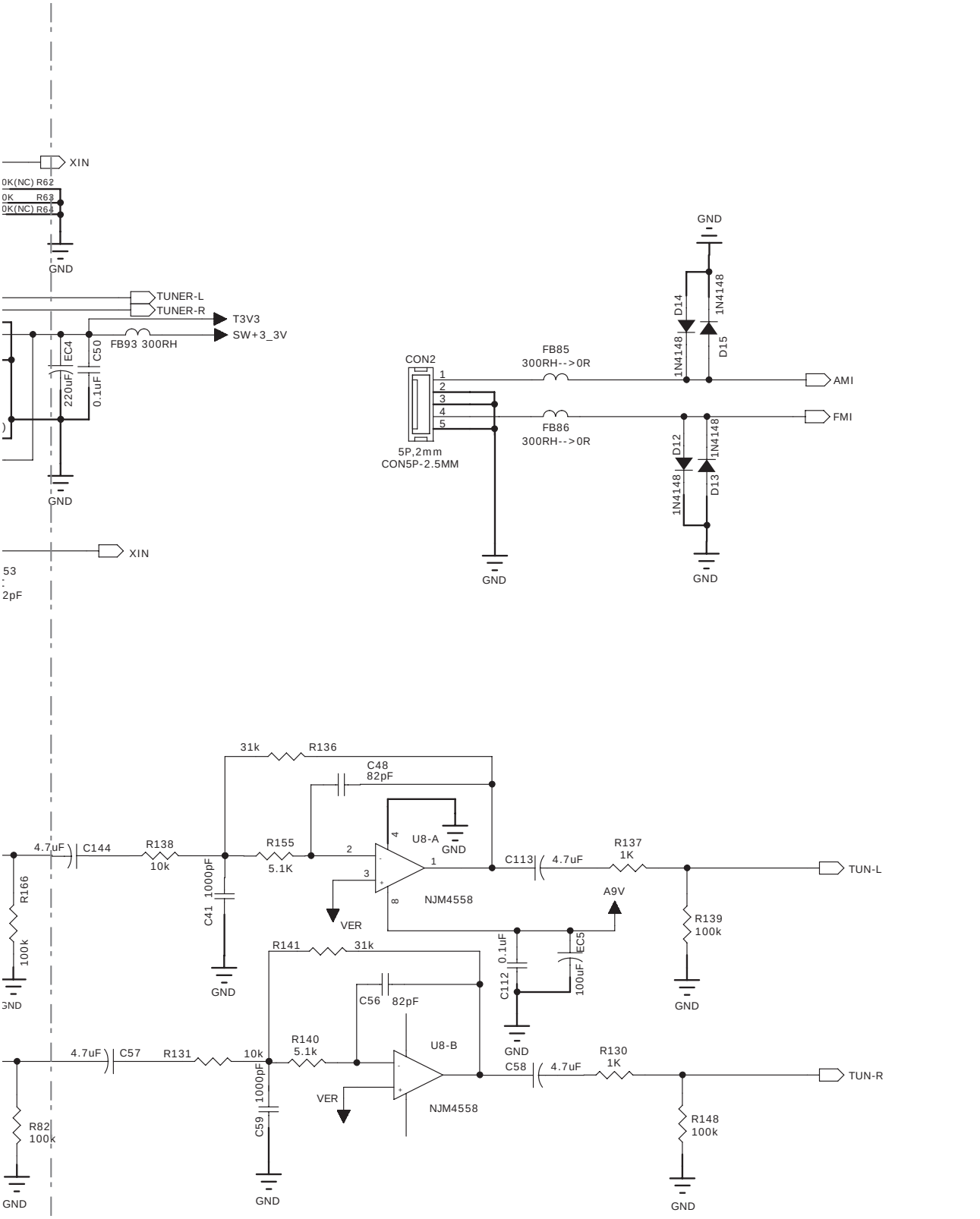


Figure 6-14: SERVO SCHEMATIC DIAGRAM (2/6)

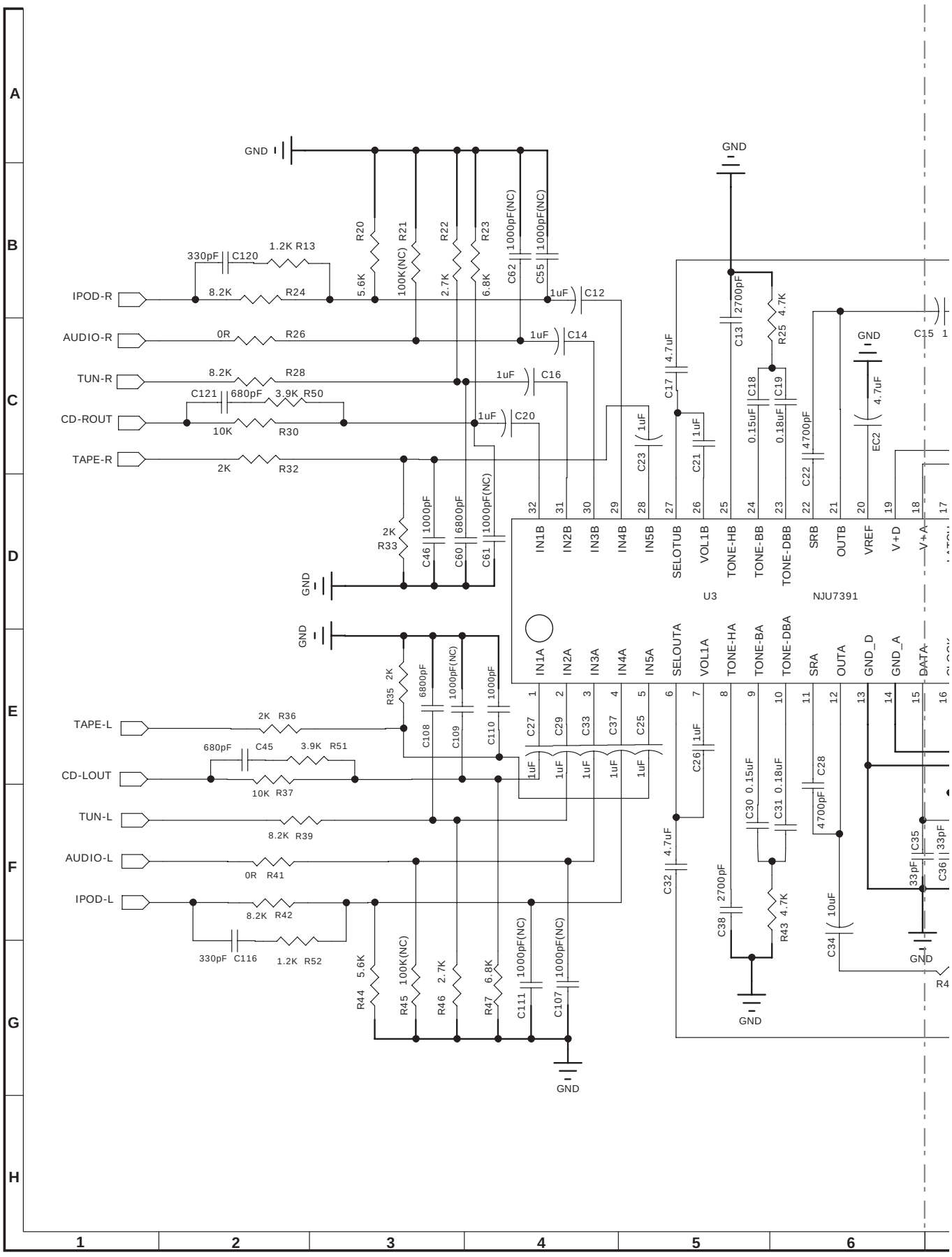
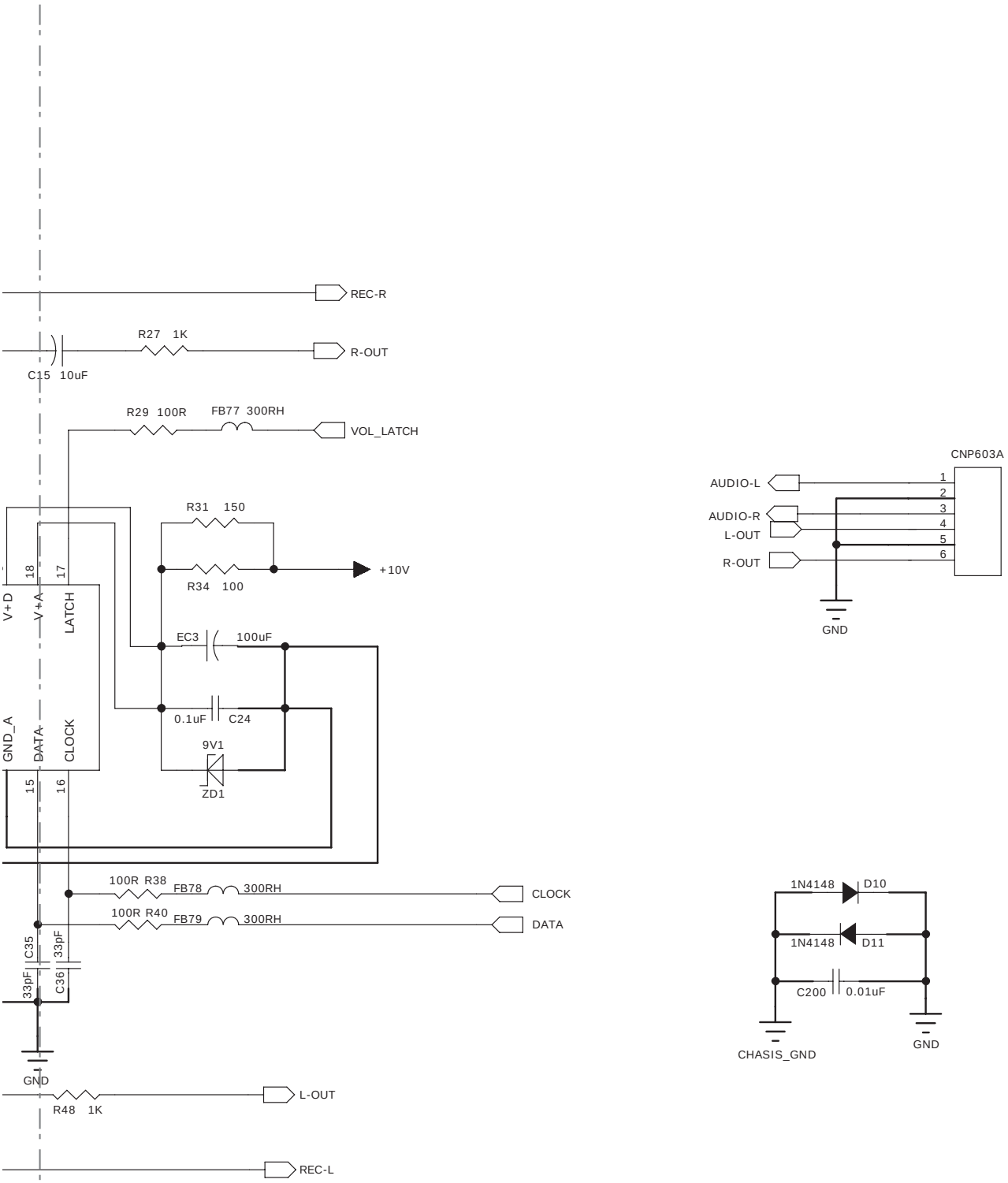


Figure 6-15: SERVO SCHEMATIC DIAGRAM (3/6)



7	8	9	10	11	12

Figure 6-16: SERVO SCHEMATIC DIAGRAM (4/6)

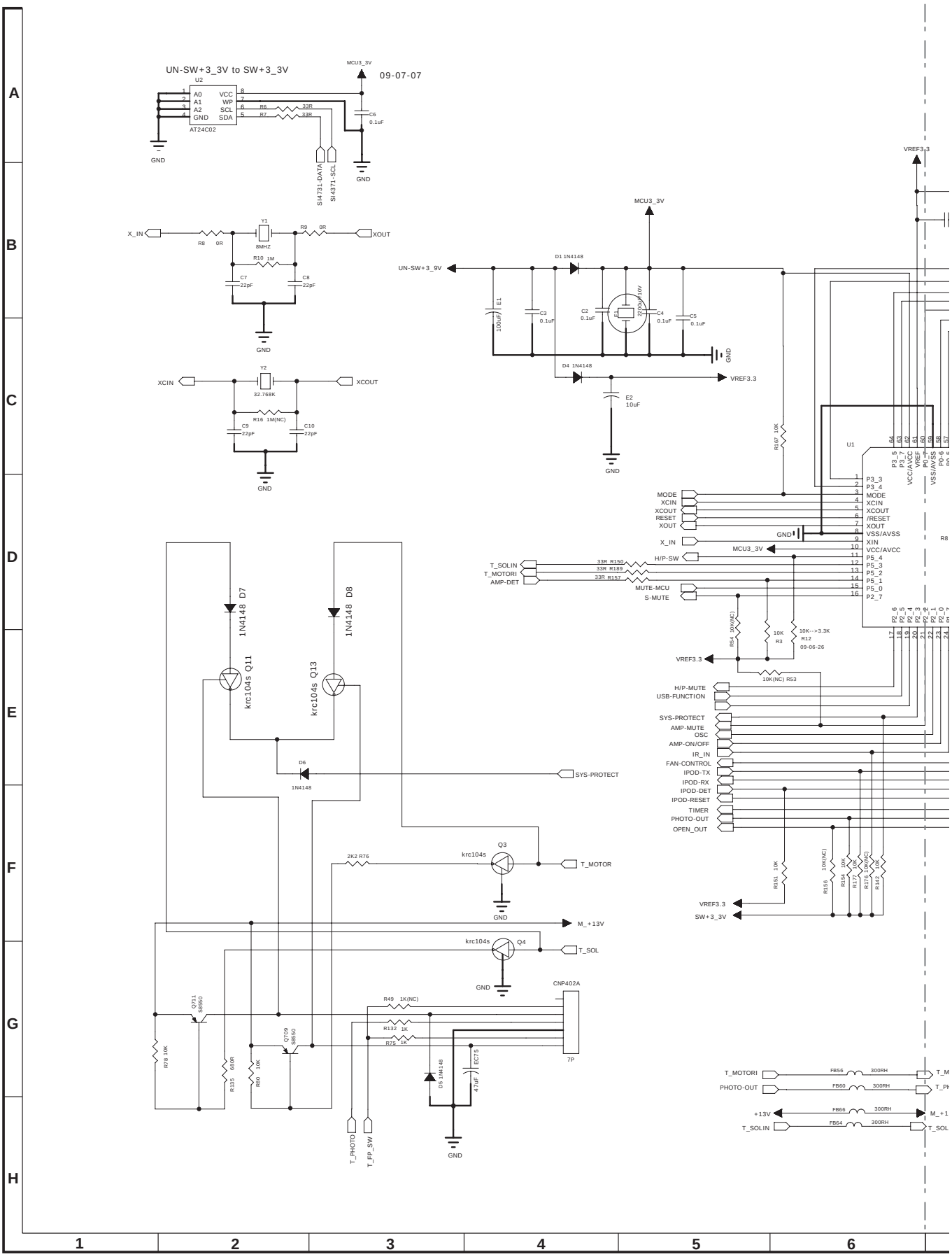
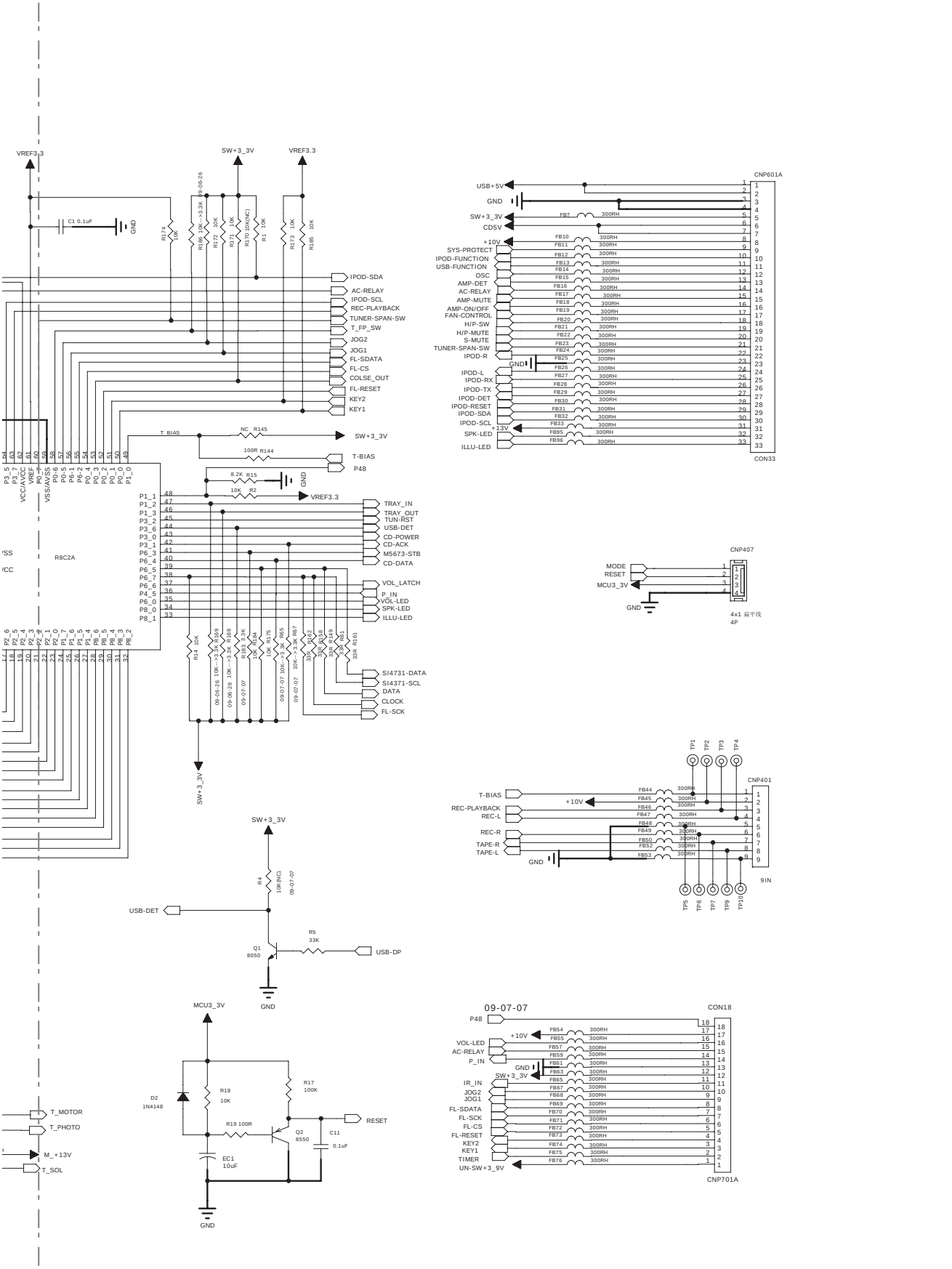


Figure 6-17: SERVO SCHEMATIC DIAGRAM (5/6)



7	8	9	10	11	12

Figure 6-18: SERVO SCHEMATIC DIAGRAM (6/6)

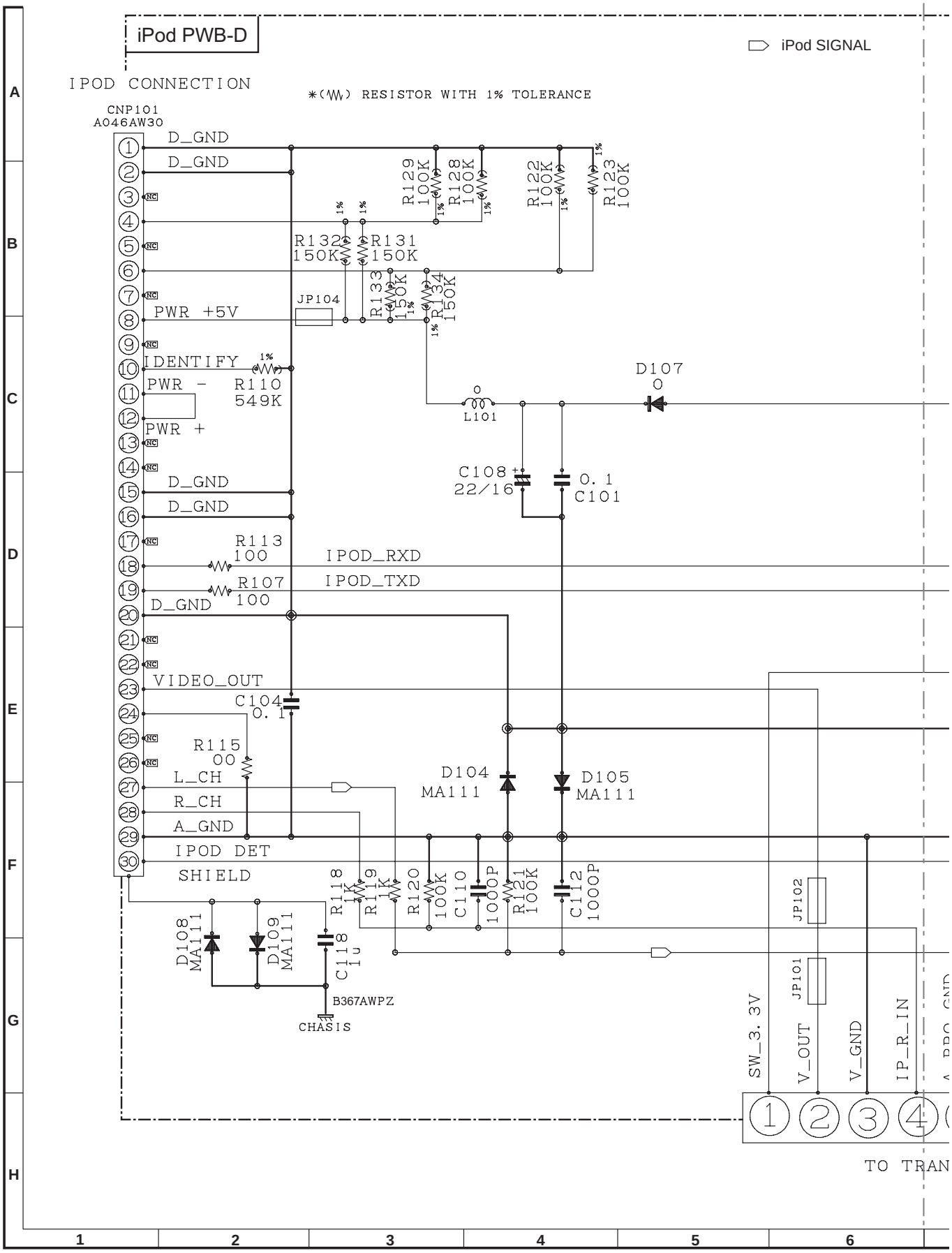


Figure 6-19: iPod SCHEMATIC DIAGRAM (1/2)

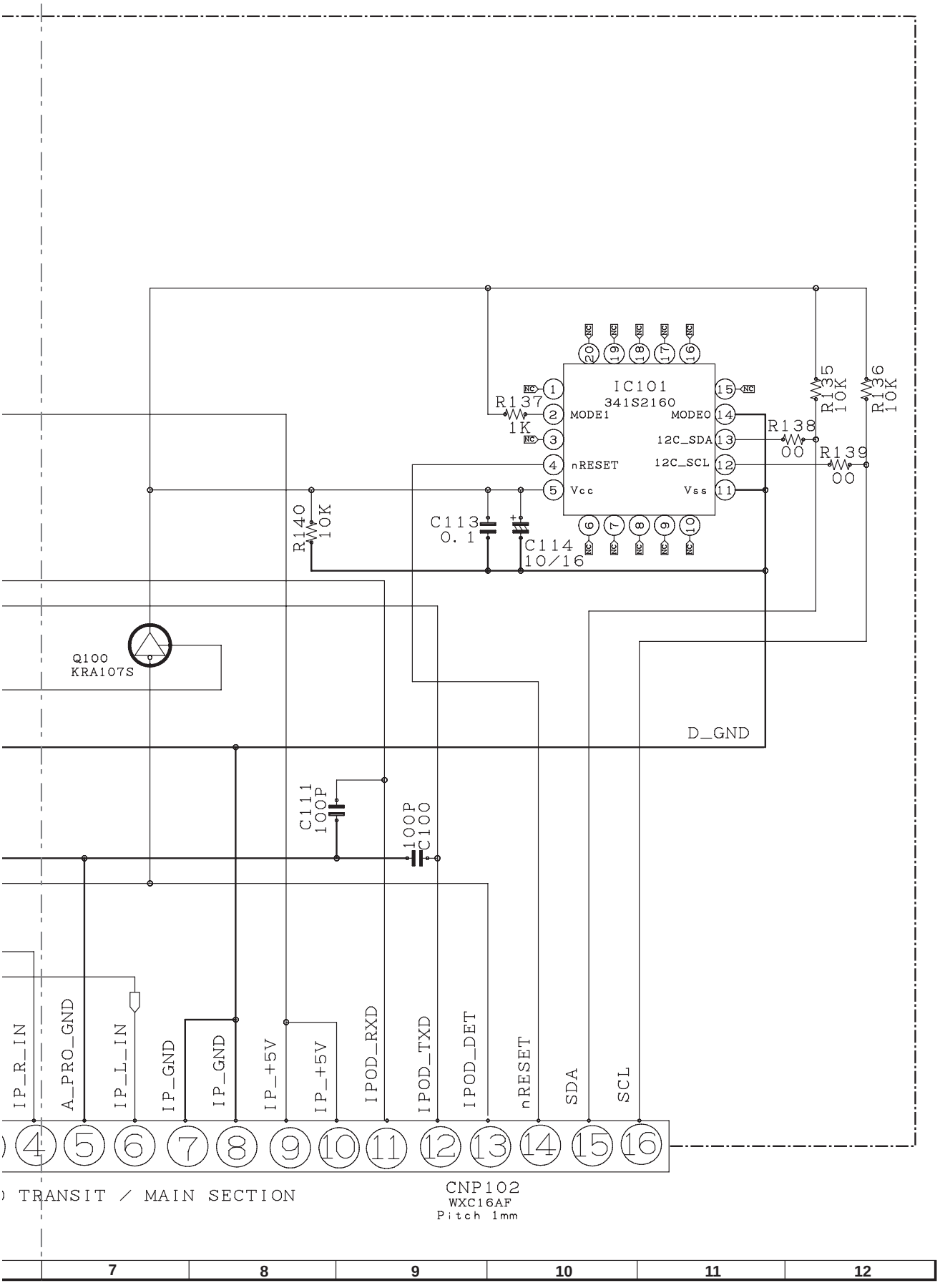


Figure 6-20: iPod SCHEMATIC DIAGRAM (2/2)

[4] Charts Of Connecting Wires

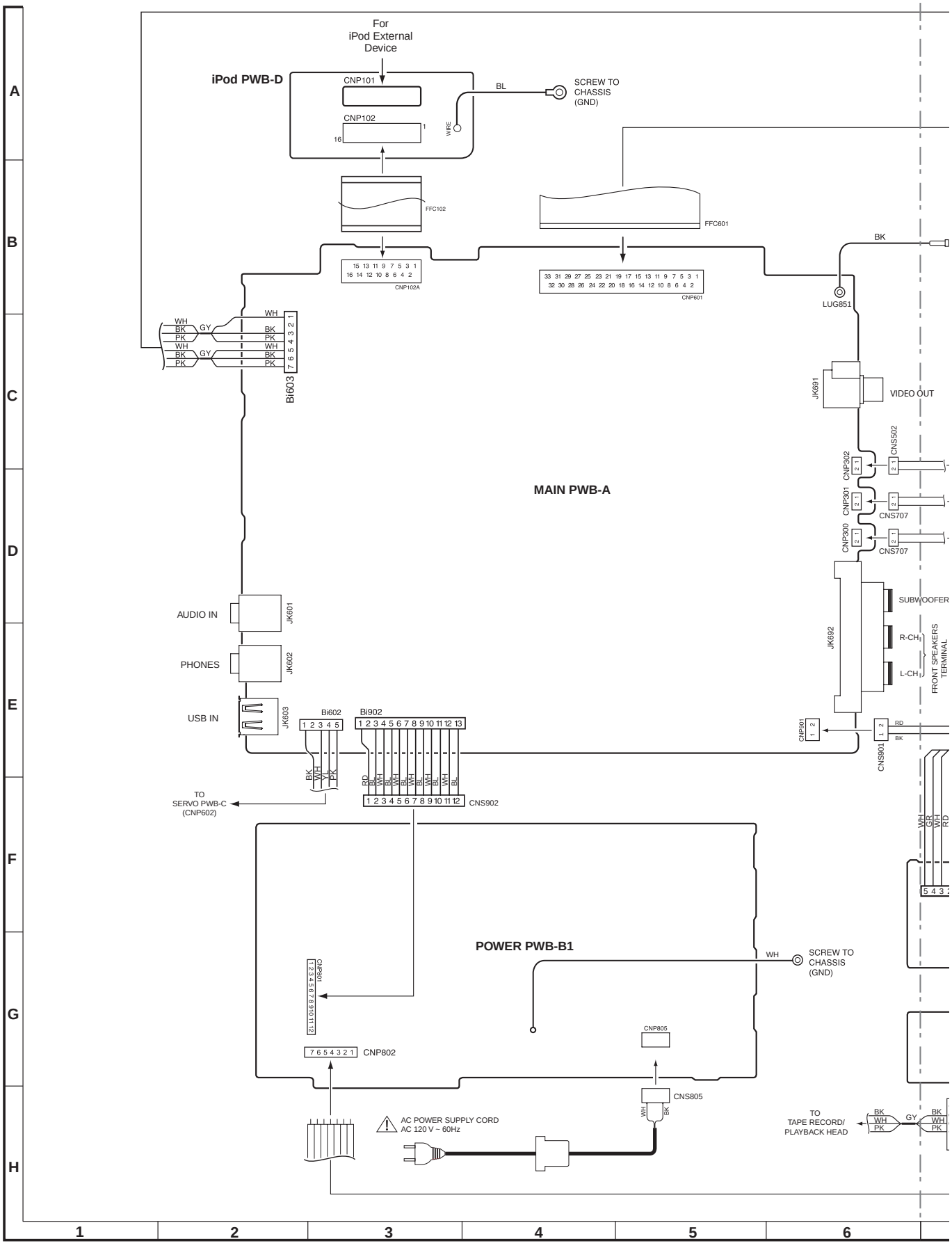
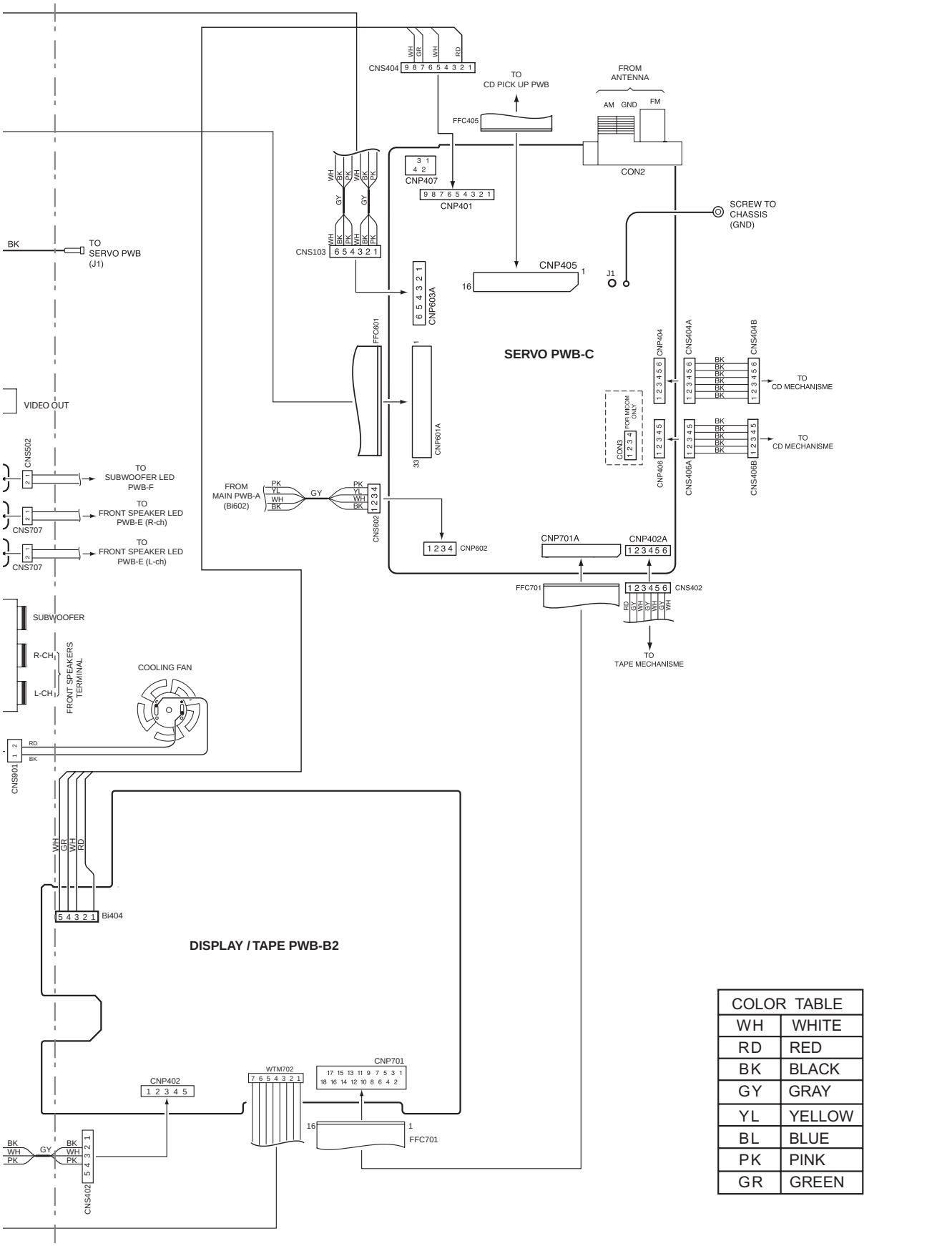


Figure 6-21: WIRING CONNECTION (1/2)



COLOR TABLE	
WH	WHITE
RD	RED
BK	BLACK
GY	GRAY
YL	YELLOW
BL	BLUE
PK	PINK
GR	GREEN

7	8	9	10	11	12

Figure 6-22: WIRING CONNECTION (2/2)

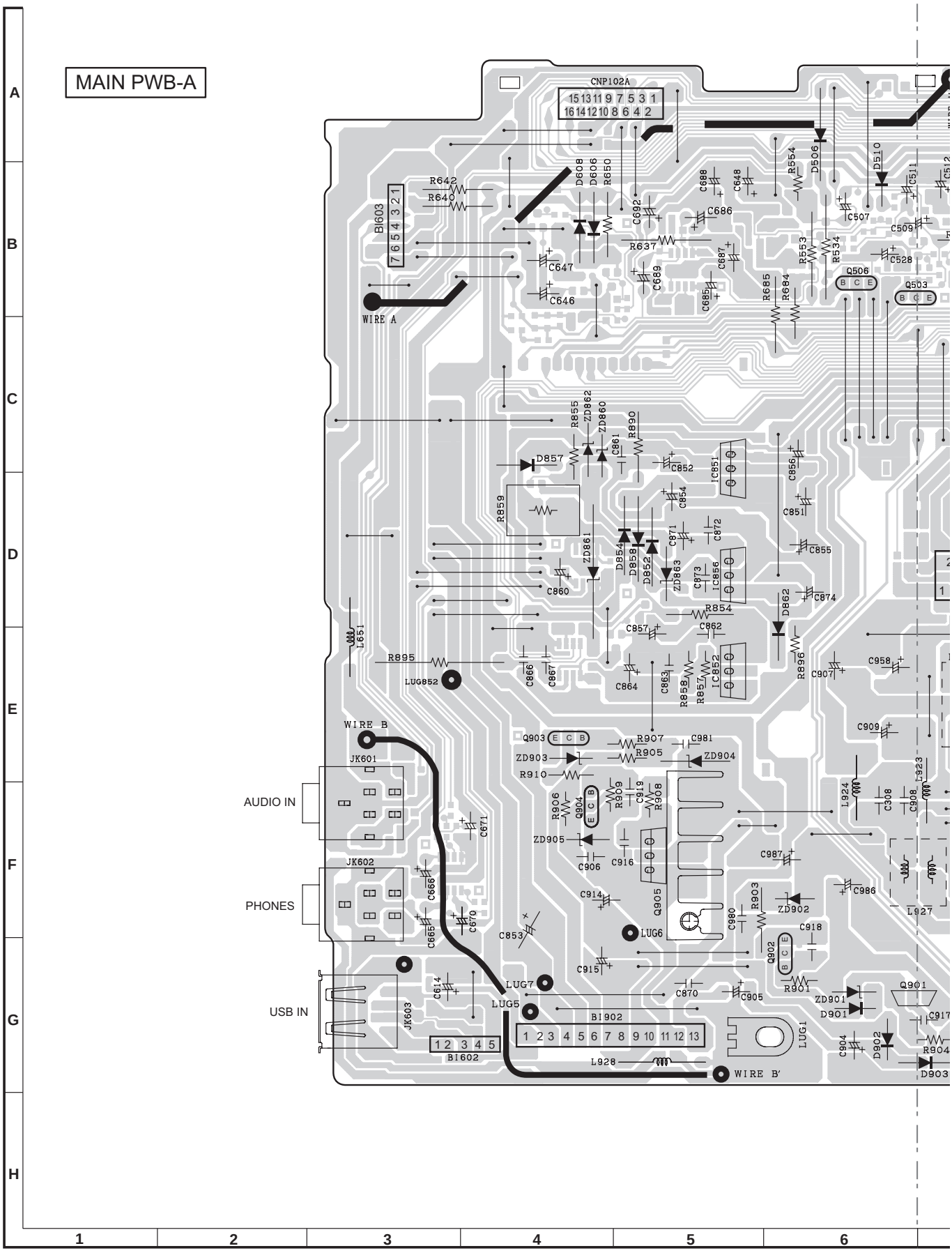
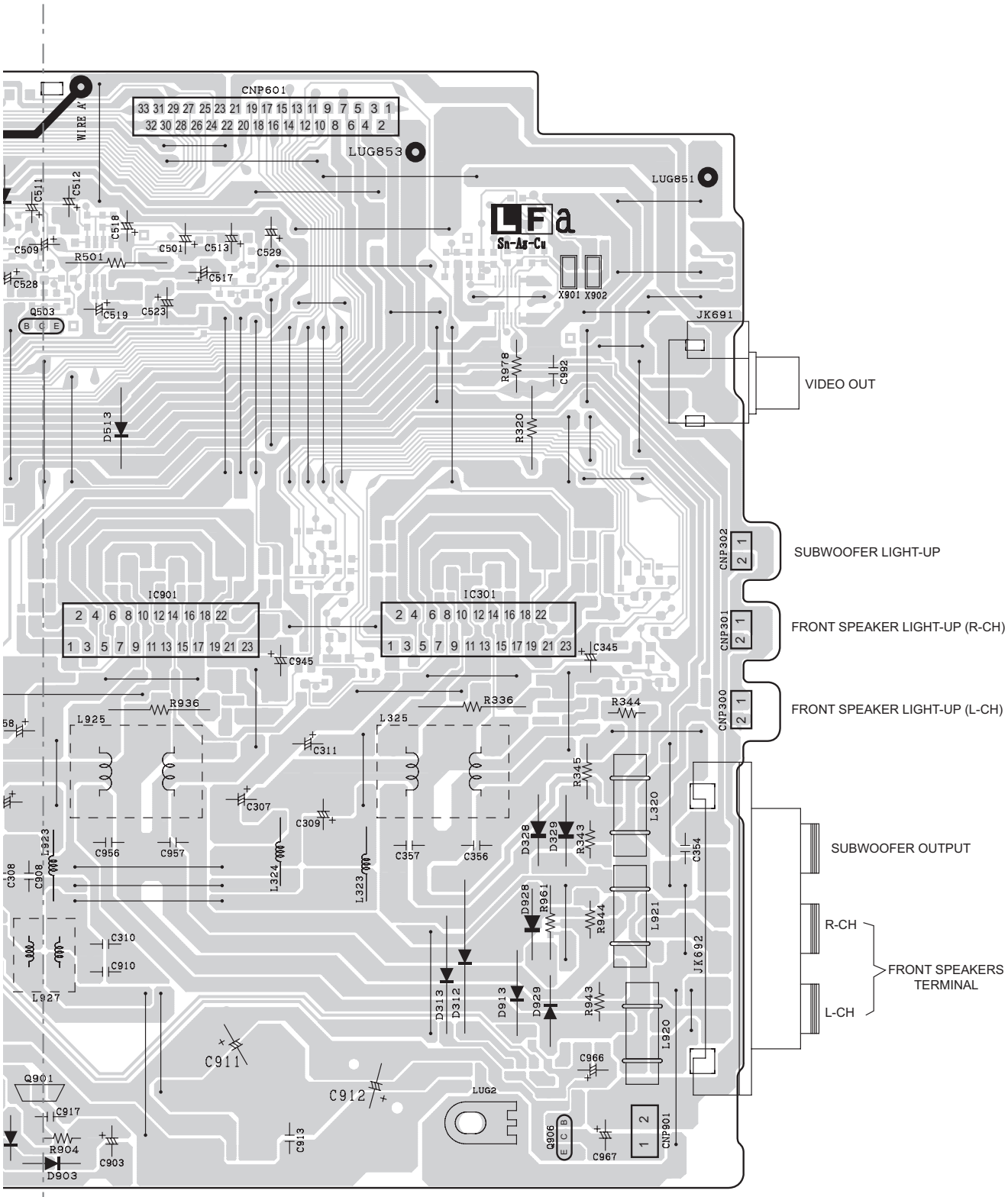


Figure 6-23: WIRING SIDE OF MAIN PWB (TOP VIEW) (1/2)



LFa Sn-Ag-Cu ← Lead-free solder indication

Lead-free solder is used in the MAIN PWB.
Refer to "Precautions for handling lead-free solder" for instructions and precautions.

7	8	9	10	11	12

Figure 6-24: WIRING SIDE OF MAIN PWB (TOP VIEW) (2/2)

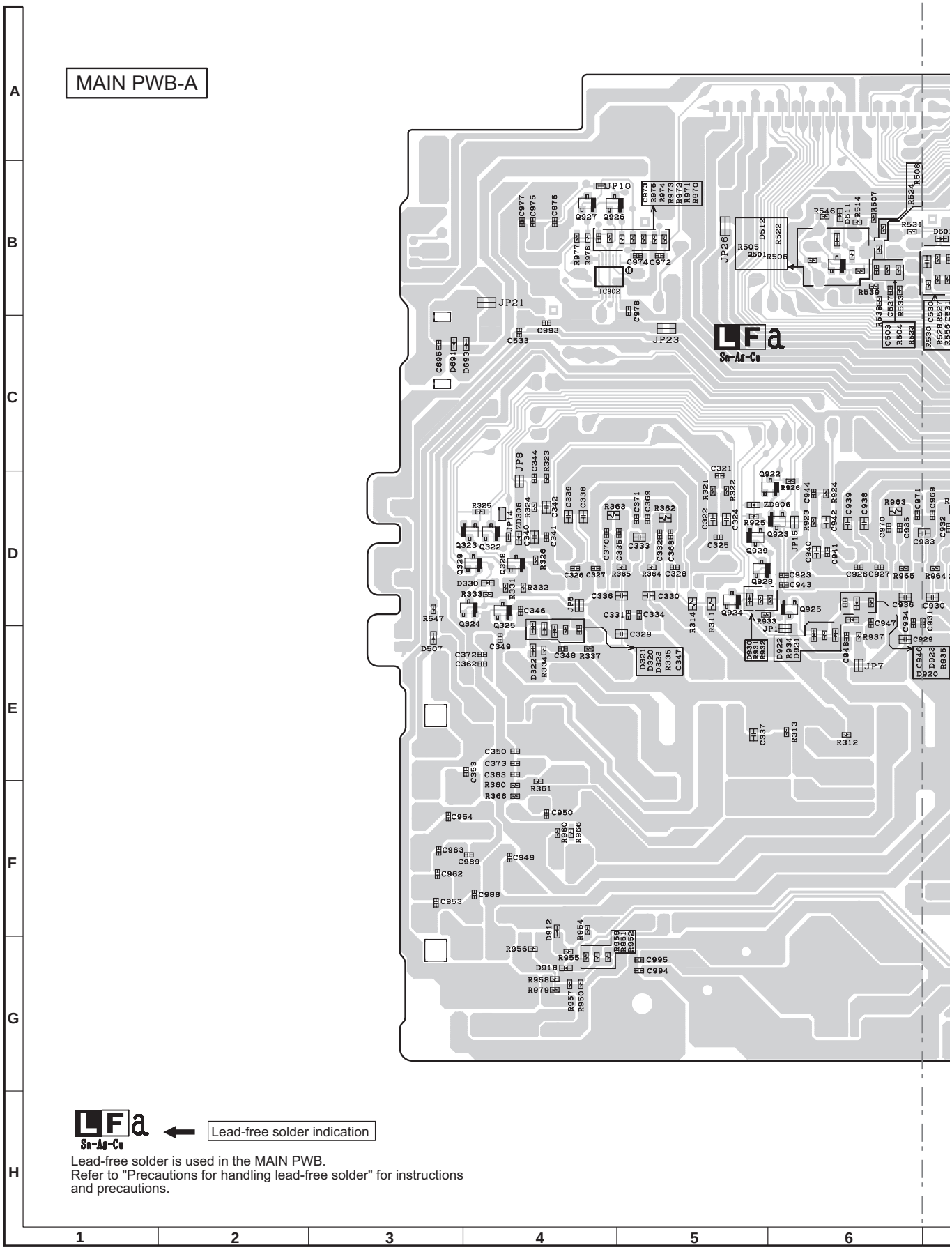
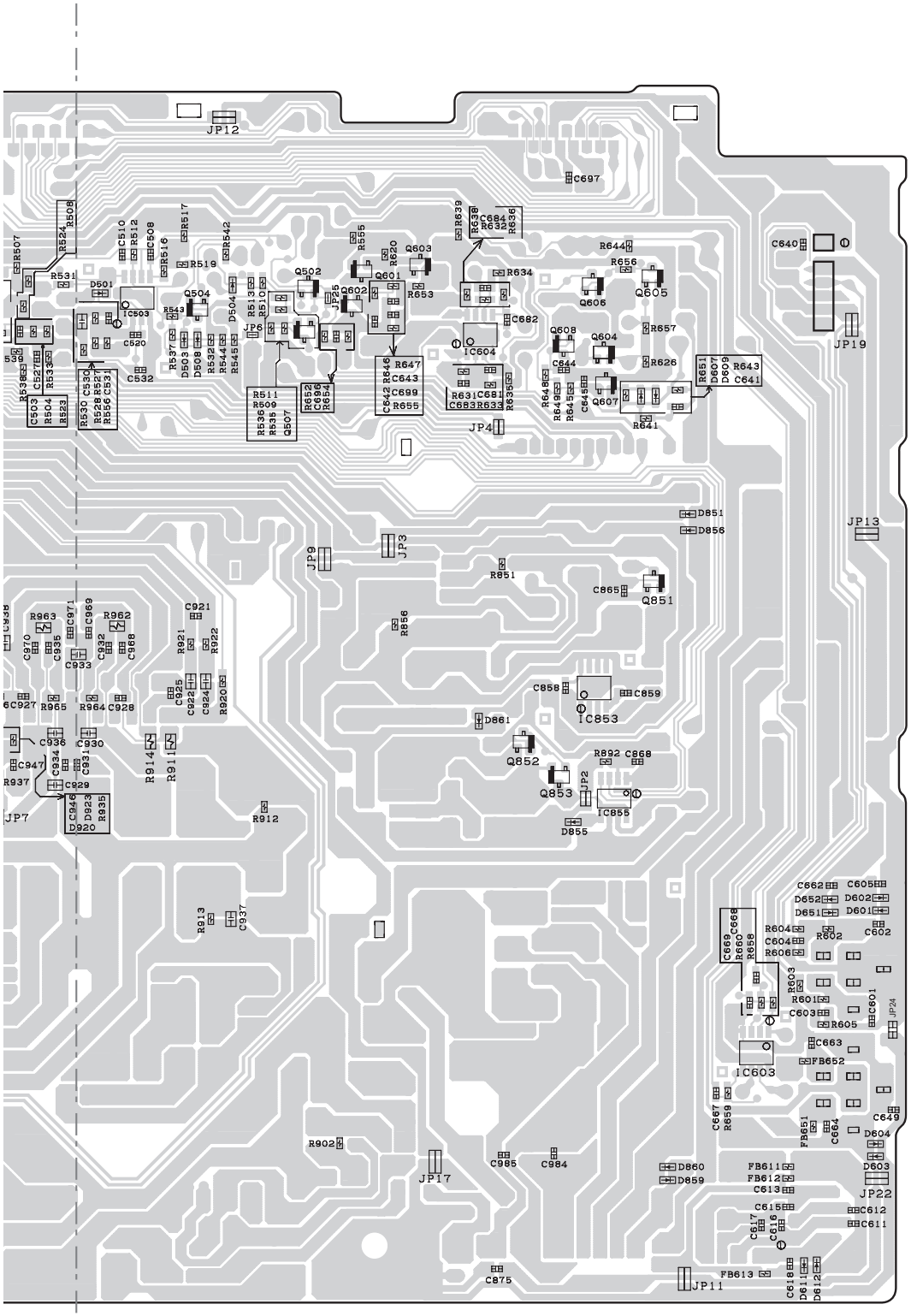


Figure 6-25: WIRING SIDE OF MAIN PWB (BOTTOM VIEW) (1/2)


JP12
JP19
JP4
JP13
JP9
JP3
JP2
JP7
JP17
JP22
JP11
IC503
IC604
IC853
IC855
IC603
Q851
Q852
Q853
Q605
Q606
Q607
Q608
Q604
Q502
Q504
Q601
Q602
Q603
Q507
D501
D504
D851
D856
D661
D855
D860
D859
D920
C697
C640
C644
C641
C865
C858
C859
C682
C683
C681
C699
C643
C642
C646
C620
C532
C530
C531
C503
C504
C523
C527
C528
C529
C933
C934
C936
C930
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C925
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C963
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C965
C966
C932
C968
R914
R911
R912
R913
R902
C937
C985
C984
C875
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C615
C617
C618
C619
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C667
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D611
D612
R602
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R604
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R606
R601
R658
R659
R660
R644
R656
R657
R626
R643
R641
R651
D607
D609
R634
R639
R638
R684
R632
R636
R620
R555
R653
R647
R646
R631
R633
R635
R648
R649
R645
R511
R509
R535
R536
R652
R654
R655
R856
R851
R892
R921
R922
R920
R964
R963
R962
R965
R937
R935
R923
R924
R508
R507
R531
R501
R543
R537
R503
R508
R532
R544
R545
R513
R510
R542
R519
R517
R516
R512
C510
C508
R538
R539
R530
R528
R527
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R523
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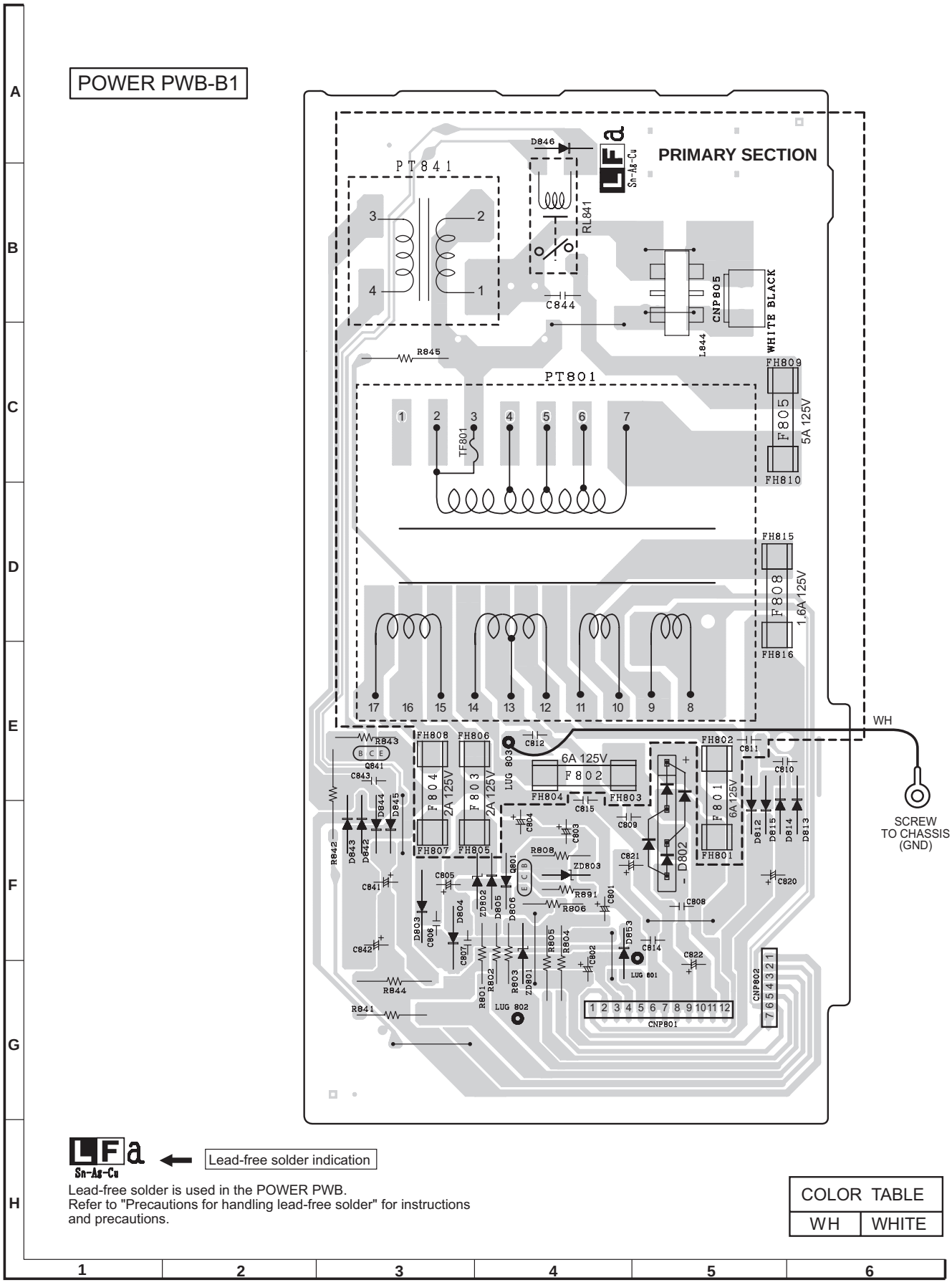
C681
C683
C682
C644
C645

POWER PWB-B1



Lead-free solder indication

Lead-free solder is used in the POWER PWB.
Refer to "Precautions for handling lead-free solder" for instructions and precautions.

COLOR TABLE	
WH	WHITE

Figure 6-27: WIRING SIDE OF POWER PWB (TOP VIEW)

-MEMO-

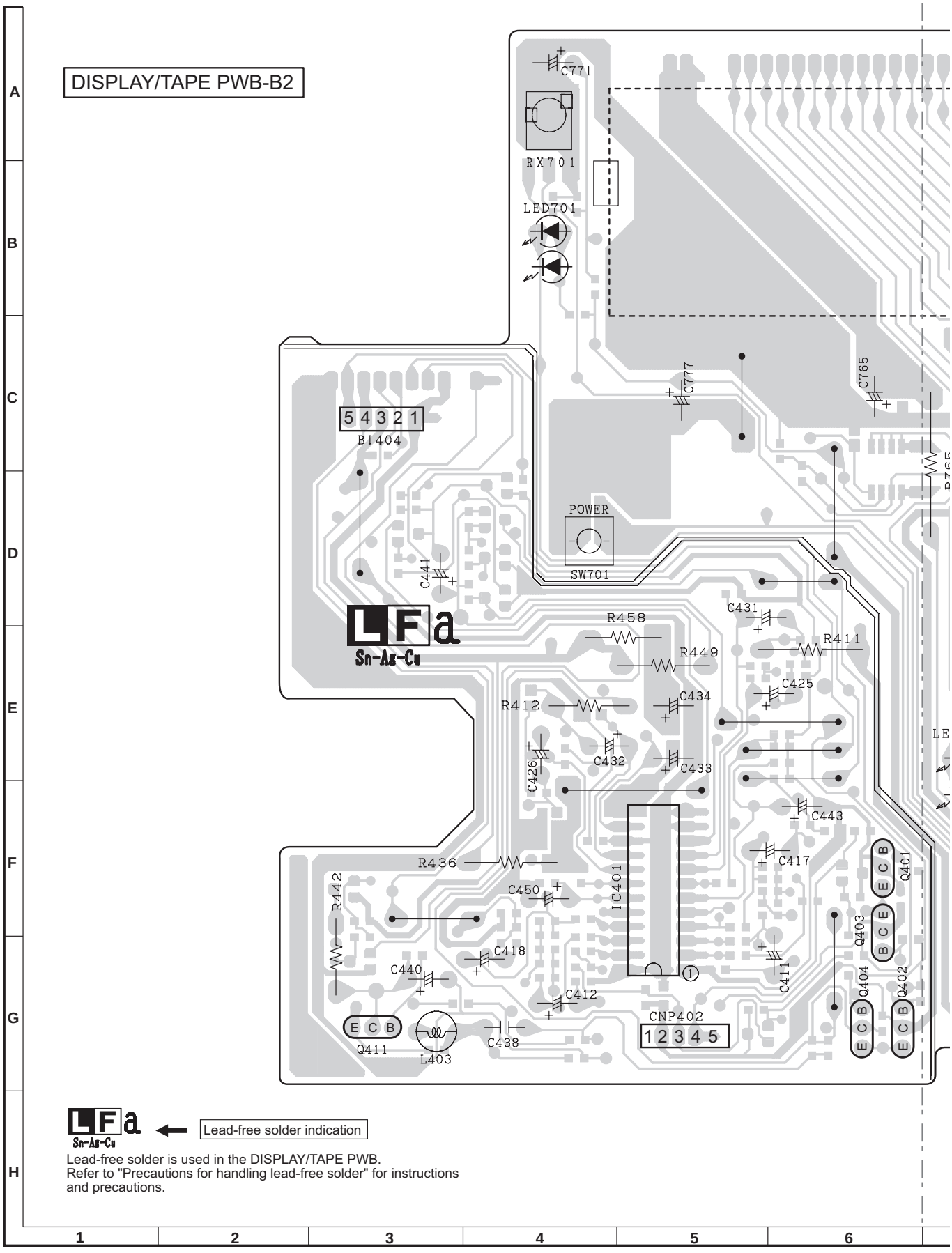


Figure 6-28: WIRING SIDE OF DISPLAY/TAPE PWB (TOP VIEW) (1/2)

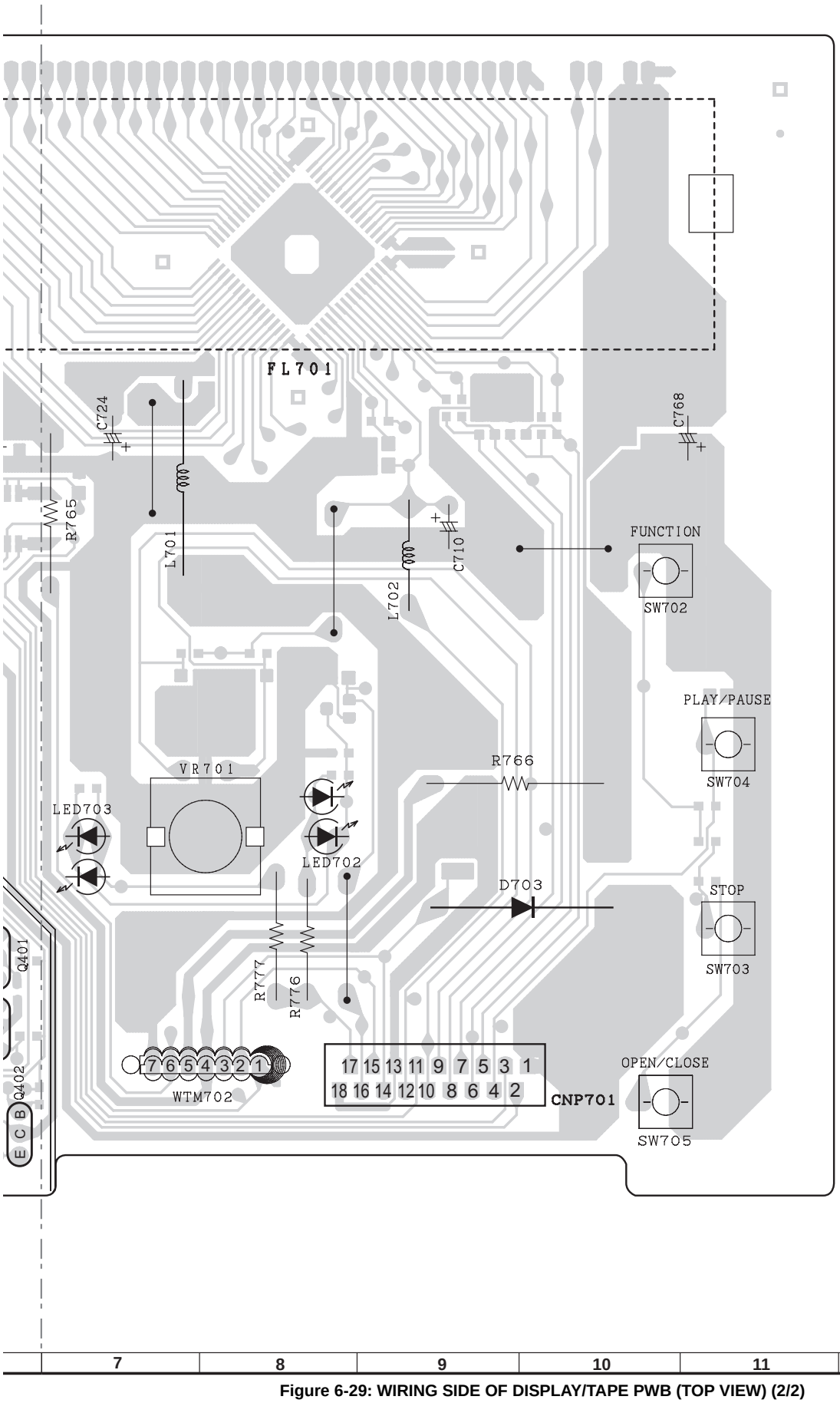


Figure 6-29: WIRING SIDE OF DISPLAY/TAPE PWB (TOP VIEW) (2/2)

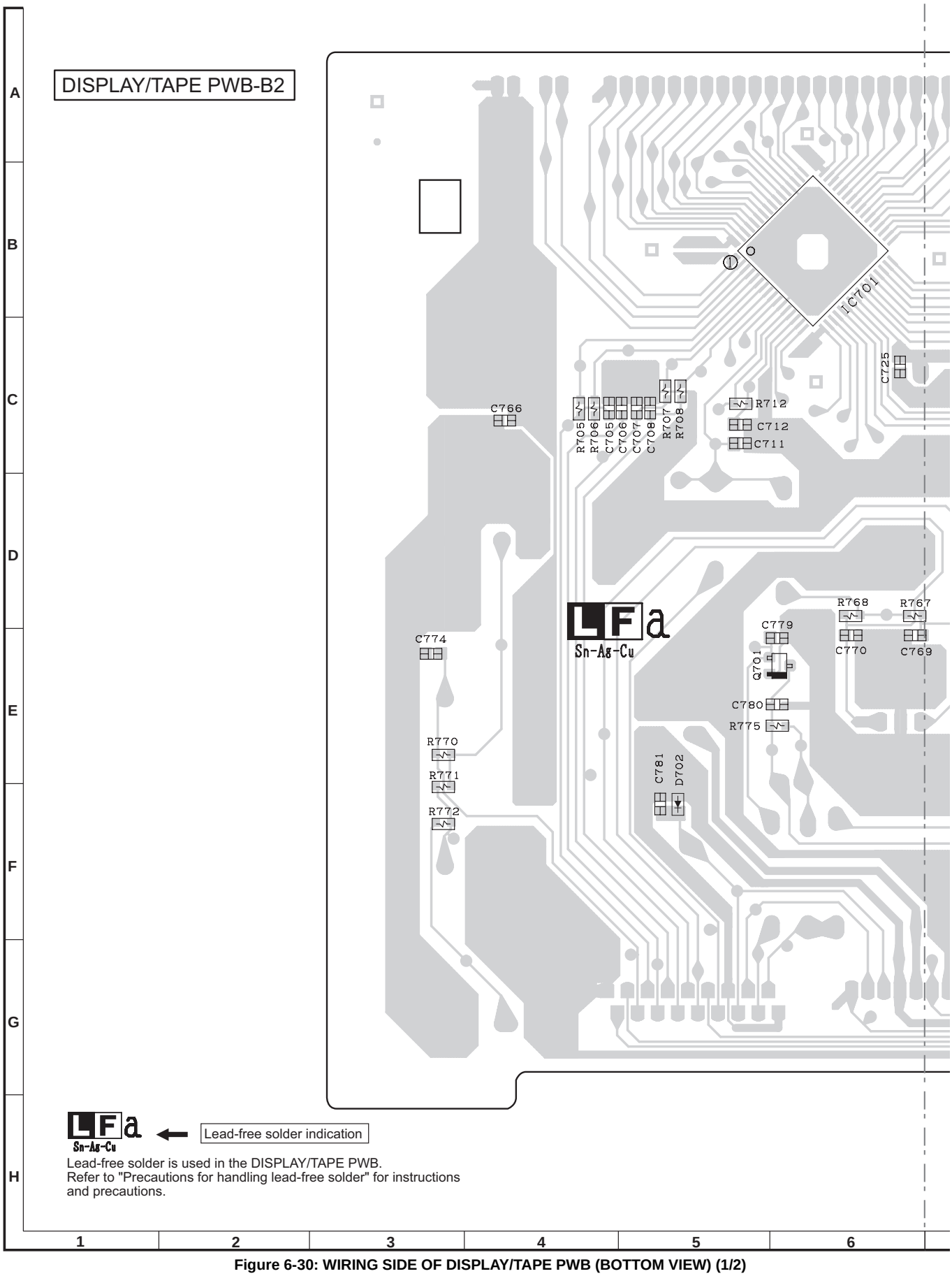
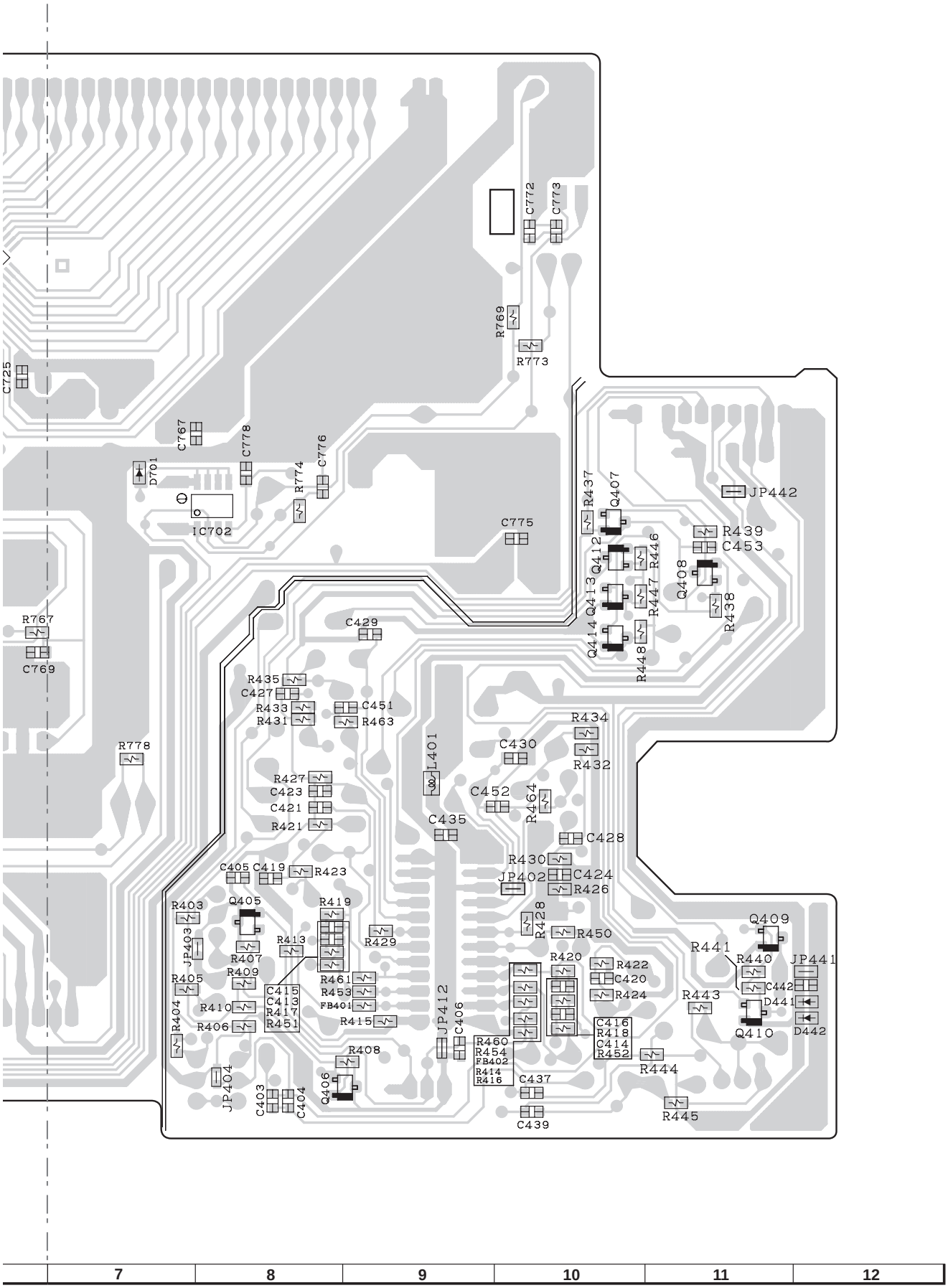


Figure 6-30: WIRING SIDE OF DISPLAY/TAPE PWB (BOTTOM VIEW) (1/2)



7	8	9	10	11	12

Figure 6-31: WIRING SIDE OF DISPLAY/TAPE PWB (BOTTOM VIEW) (2/2)

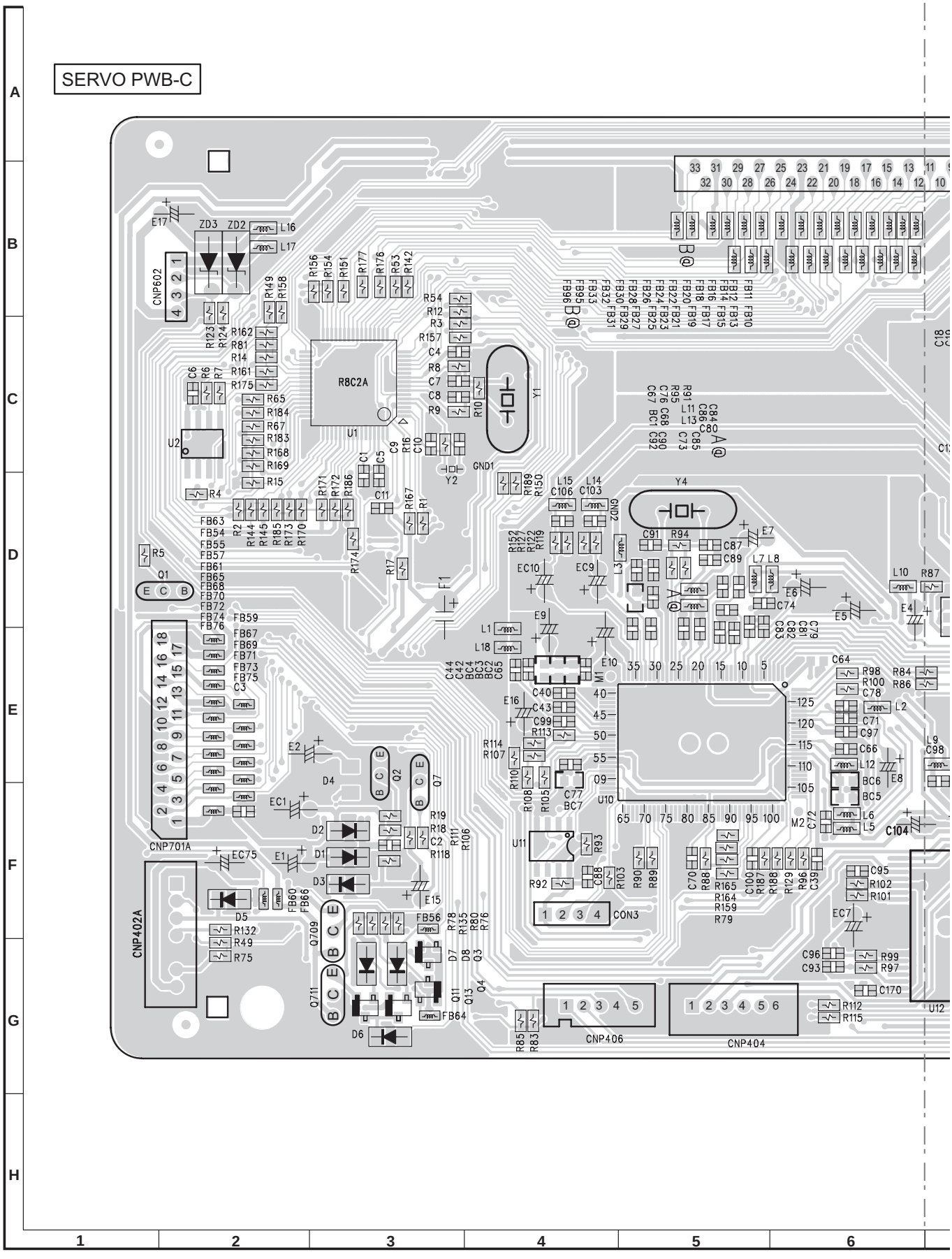
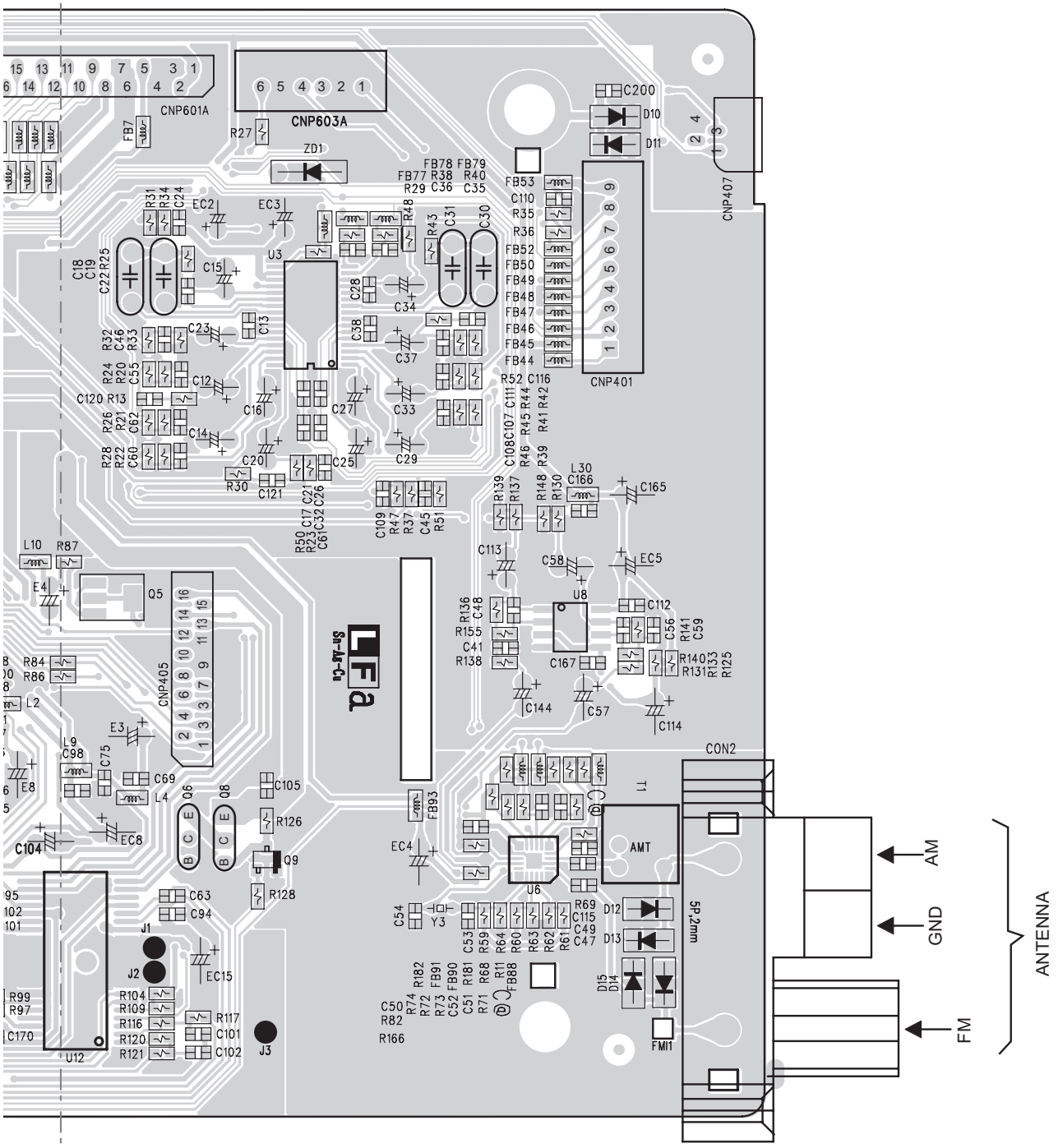


Figure 6-32: WIRING SIDE OF SERVO PWB (1/2)



Sn-Ag-Cu ← Lead-free solder indication

Lead-free solder is used in the SERVO PWB.
Refer to "Precautions for handling lead-free solder" for instructions and precautions.

7	8	9	10	11	12

Figure 6-33: WIRING SIDE OF SERVO PWB (2/2)

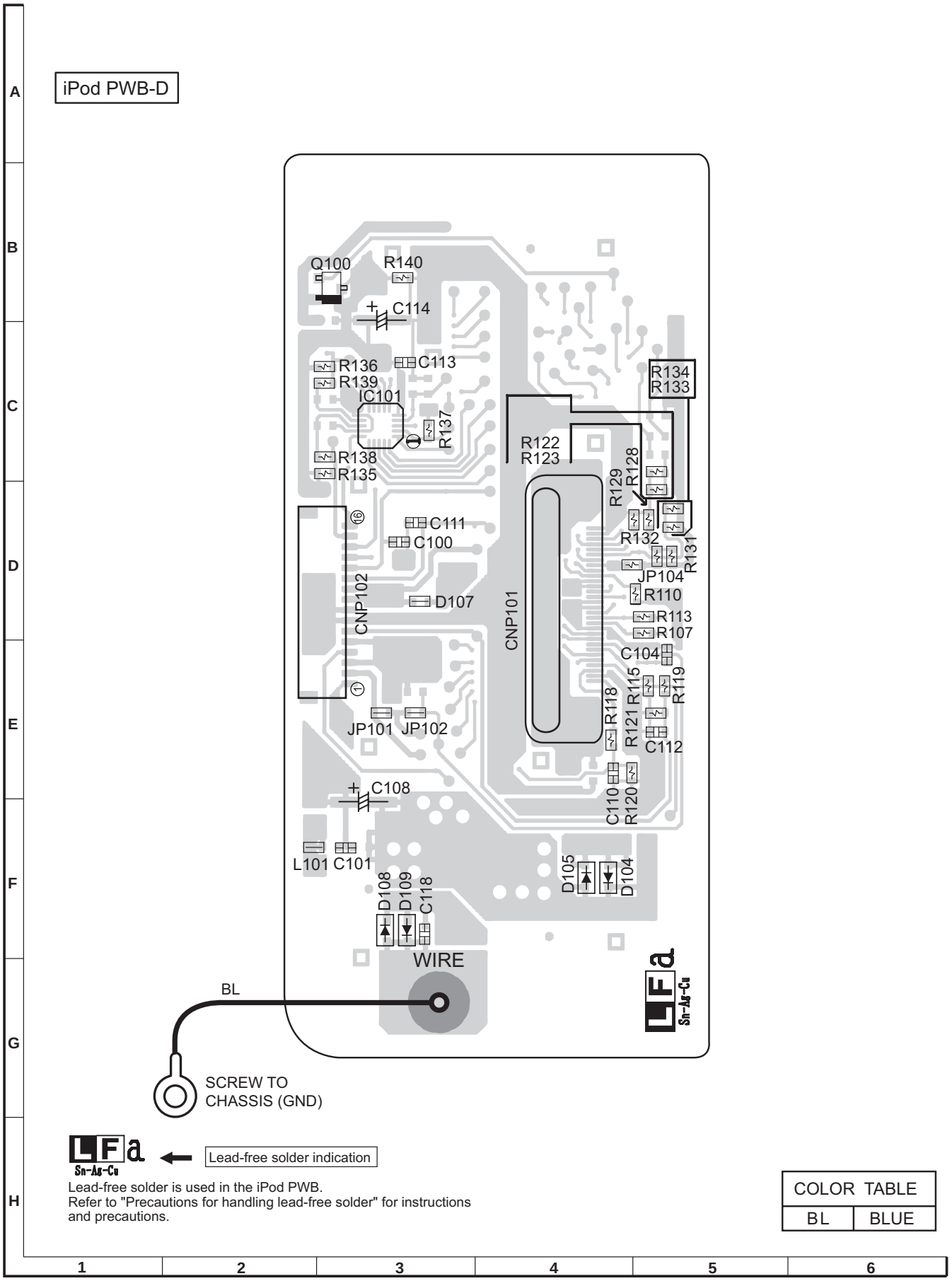
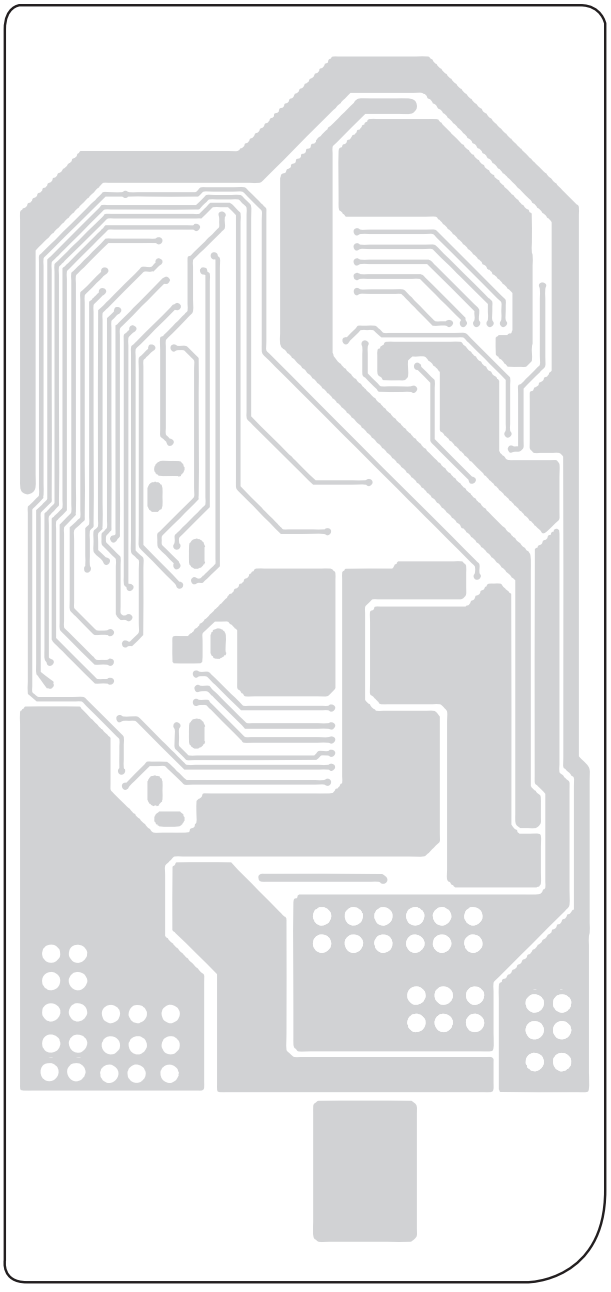


Figure 6-34: WIRING SIDE OF iPod PWB (TOP VIEW)

iPod PWB-D



LFa Sn-Ag-Cu ← Lead-free solder indication

Lead-free solder is used in the iPod PWB.
Refer to "Precautions for handling lead-free solder" for instructions and precautions.

Figure 6-35: WIRING SIDE OF iPod PWB (BOTTOM VIEW)

CHAPTER 7. FLOWCHART

[1] Troubleshooting

1. When the CD does not function

The CD section may not operate when the objective lens of the optical pickup is dirty. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.

Remove the cabinet and follow the troubleshooting instructions.

"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.

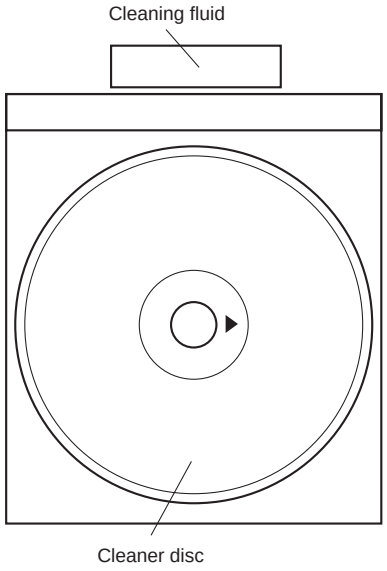
Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.

Do not touch the lens with the bare hand.

		Parts code
1.	CD optical pickup Lens cleaner disc	UDSKA0004AFZZ

HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down, then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it still play continuously, press the stop button.



CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please replace the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner disc must not be used on car CD players or on computer CD-ROM drives.
- All rights reserved. Unauthorized duplicating, broadcasting and renting this product is prohibited by law.

2. When a CD cannot be played

2.1. Pressing the CD operation key is accepted, but playback does not occur.

1) Focus system check

2) Tracking system check

3) Spin system check

4) Others

5) USB system check_USB play

3. When the USB does not function.

3.1. "NO MEDIA" is displayed.

1) Check the power to U10 (92L117ALiM5601) and CNP602 connector.
2) Check the system microcomputer (especially the communication line with the USB Host).
3) Check the grounding condition to U10 (92L117ALiM5601) and CNP602 connector.

4. When a USB cannot be played.

4.1. Pressing the USB operation key is accepted, but playback data does not occur.

1) DM data line.
2) DP data line.
3) Others.

Press the Tray1 CD Eject Button without inserting a disc, and try starting the playback operation.

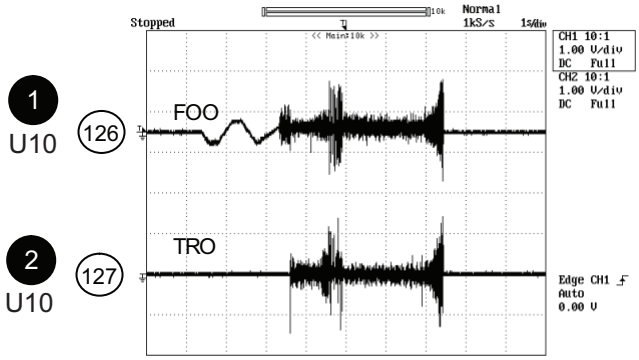


Figure 1

(1) Focus system check.

Although a CD is inserted and the cover is closed, "NO DISC" is displayed.

1. Does the pickup move?
   - No → Sled motor.
   - Yes ↓
2. Does the focus (lens) move up and down? (Waveform drawing Figure 1)
   - No → Check the focus peripheral circuit.
   - Yes ↓
3. Is the laser lit?
   - No → Check the laser diode driver Q5 peripheral circuit.
   - Yes ↓
4. Is the turntable rotating?
   - No → Spindle motor.

When a disc is loaded, start playback operation.

1. Is focus servo activated? (Waveform drawing Figure 2)
   - No → Pins 4, 7, 13 and 126 on U10, Pins 1, 13 and 14 on U12. Check the laser diode driver Q5 peripheral circuit.

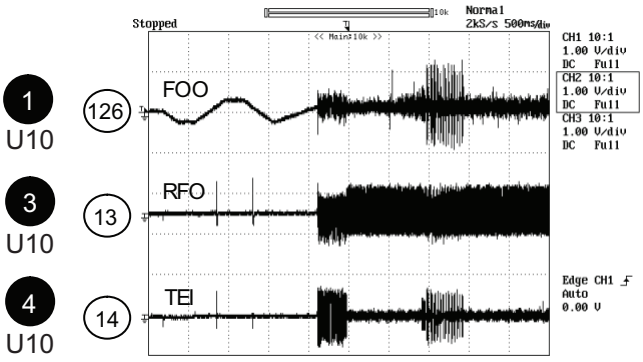


Figure 2

(2) Tracking system check.

Check the TE waveform at pin 14 on U10.

If the waveform shown in Figure 3 appears and soon after NO DISC appears?

→ Yes: The tracking servo is not activated.
Check the peripheral circuits at pins 2, 3, 14 and 127 on U10, pins 15, 16 and 26 on U12 and FFC.

↓ No

"Initialization" is possible, but play is not possible?

→ Yes: A normal jump operation cannot be completed or the beginning of the track cannot be found.
Check the around pin 127 on U10.

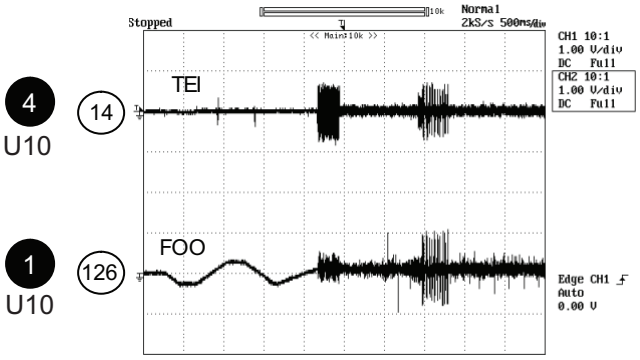


Figure 3

(3) Spin system check.

Press the OPEN/CLOSE switch without inserting a disc, and then try starting the play operation.

↓

1. The turntable rotates a little?
(Waveform drawing Figure 4)

→ Yes: The spin driver circuit is OK.

↓ No

2. The turntable doesn't rotate.

→ Check around pin 123 on U10, pins 17, 18 and 23 on U12.

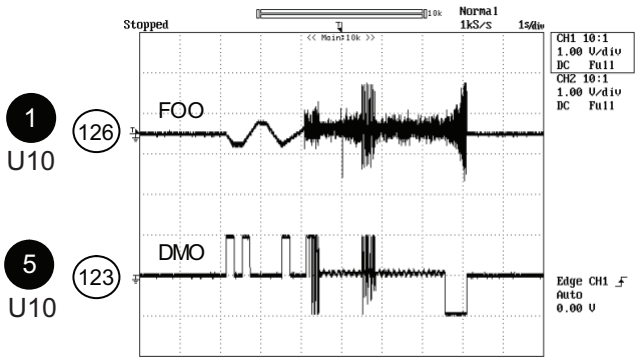


Figure 4

(4) Others.

The time is displayed normally, but no sound is produced. Or the sound has dropouts.

Is pin 33 and 36 on U10 (Figure 5), (Playback 1 kHz signal).

No → Check the audio out peripheral circuits.

↓ Yes

If OK, Check the unit.

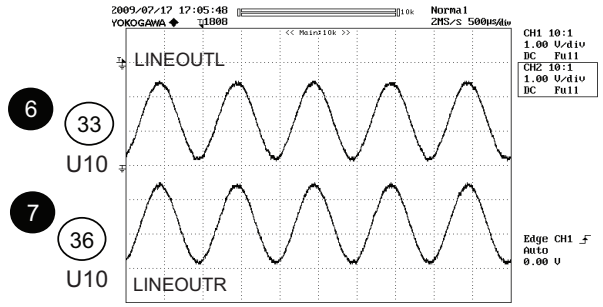


Figure 5

(5) USB system check_USB play.

Press USB function, insert the USB memory device into the USB.

1. Does the device information can display?

No → Check around pin 52 and 53 on U10. (Figure 6)

↓

2. The waveform and the time is displayed normal, but no sound is produced.

No → Check the audio out peripheral circuits.

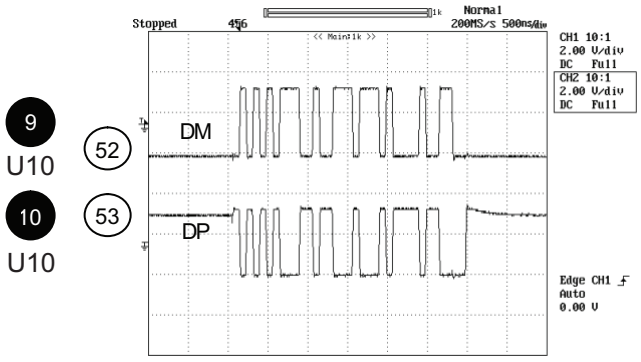


Figure 6

CHAPTER 8. OTHERS

[1] Funtion Table Of IC

U6 92L117Si473101 : Broadcast AM/FM Radio Receiver (1/2)

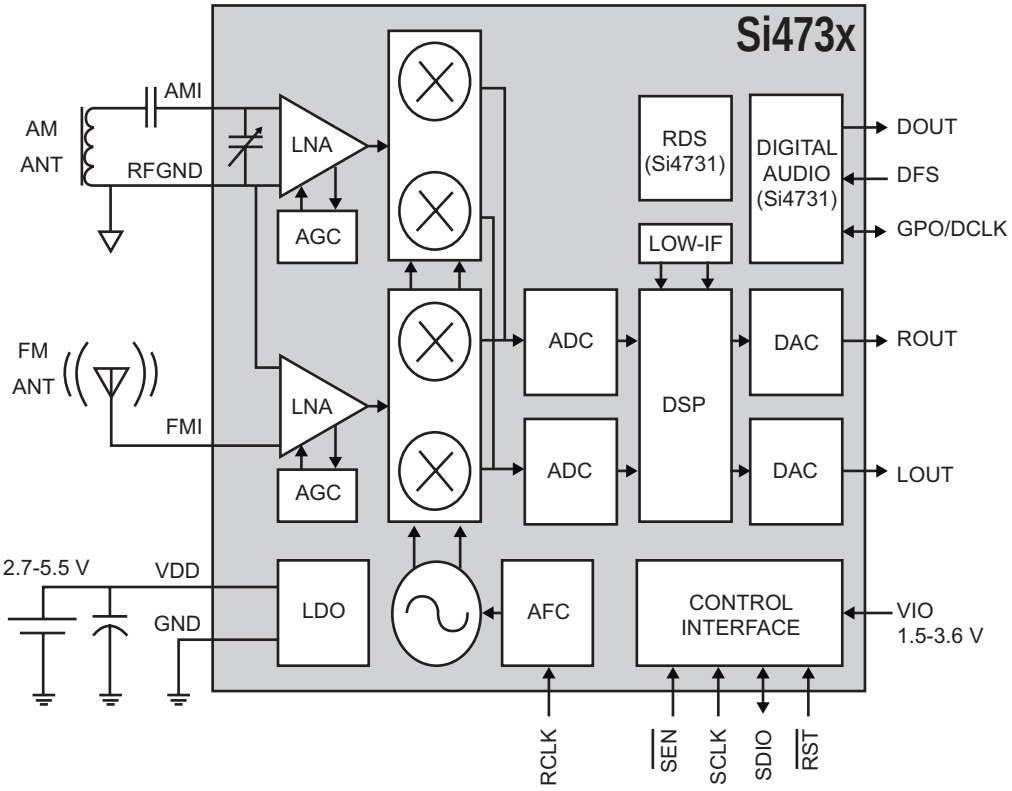
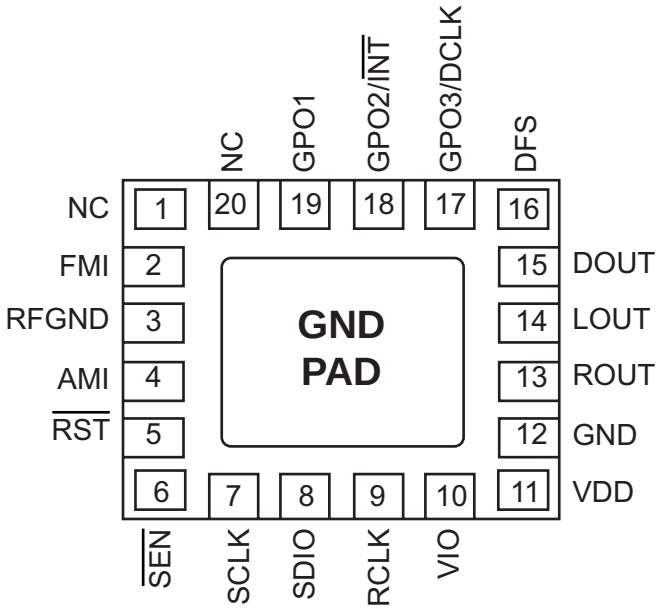


Figure 8-1 BLOCK DIAGRAM OF IC



PIN CONFIGURATION

U6 92L117Si473101 : Broadcast AM/FM Radio Receiver (2/2)

PIN DESCRIPTION

Pin Number(s)	Name	Description
1,20	NC	No connect. Leave floating.
2	FMI	FM RF inputs. FMI should be connected to the antenna trace.
3	RFGND	RF ground. Connect to ground plane on PCB.
4	AMI	AM RF input. AMI should be connected to the AM antenna.
5	$\overline{RST}$	Device reset (active low) input.
6	$\overline{SEN}$	Serial enable input (active low).
7	SCLK	Serial clock input.
8	SDIO	Serial data input/output.
9	RCLK	External reference oscillator input.
10	V_{10}	I/O supply voltage.
11	V_{DD}	Supply voltage. May be connected directly to battery.
12, GND PAD	GND	Ground. Connect to ground plane on PCB.
13	ROUT	Right audio line output in analog output mode.
14	LOUT	Left audio line output in analog output mode.
15	DOUT	Digital output data in digital output mode.
16	DFS	Digital frame synchronization input in digital output mode.
17	GPO3/DCLK	General purpose output, crystal oscillator, or digital bit synchronous clock input in digital output mode.
18	GPO2/$\overline{INT}$	General purpose output or interrupt pin.
19	GPO1	General purpose output.

U10 92L117ALiM5601 : CD,SD & USB Audio Single Chip Controller (M5673)(1/6)

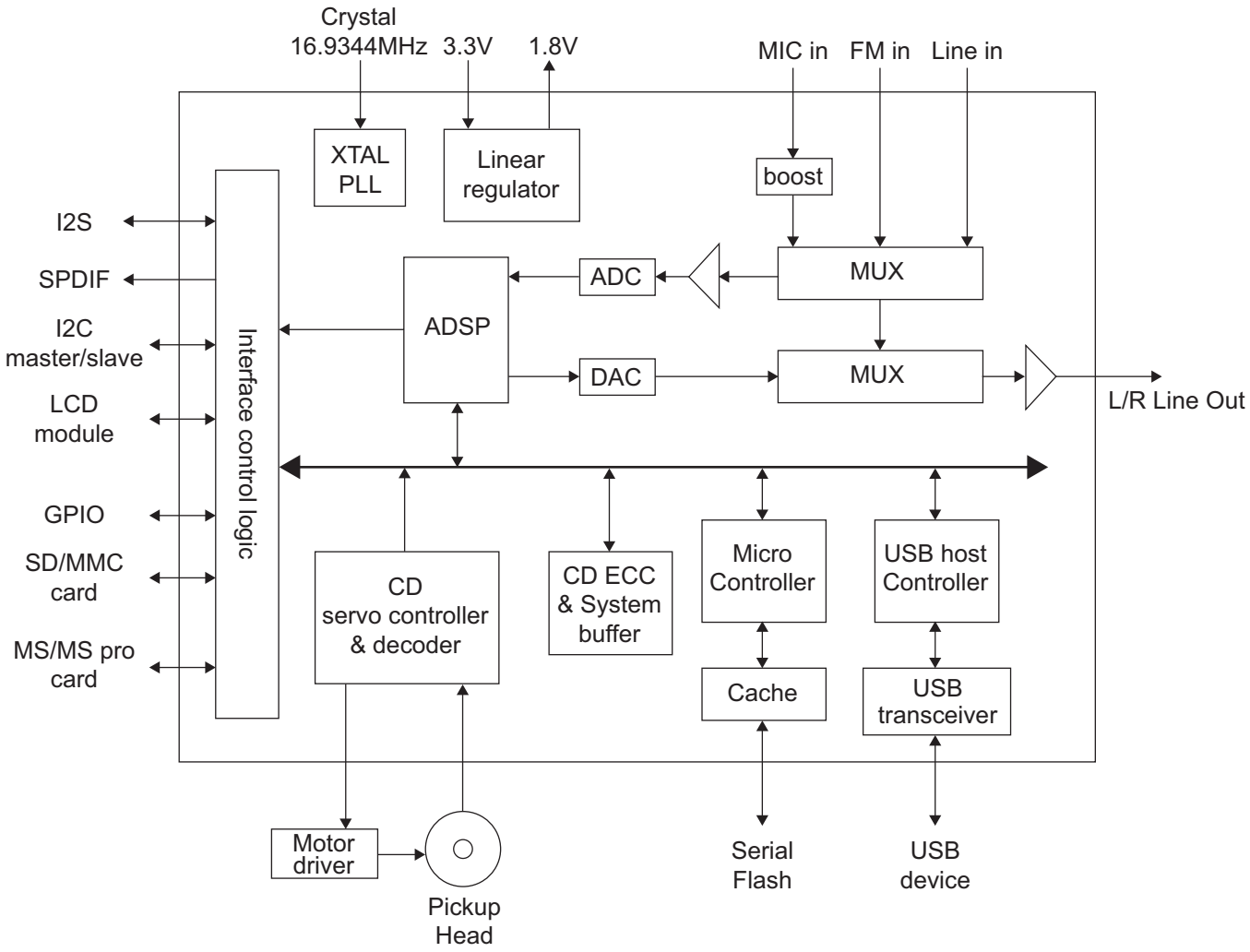
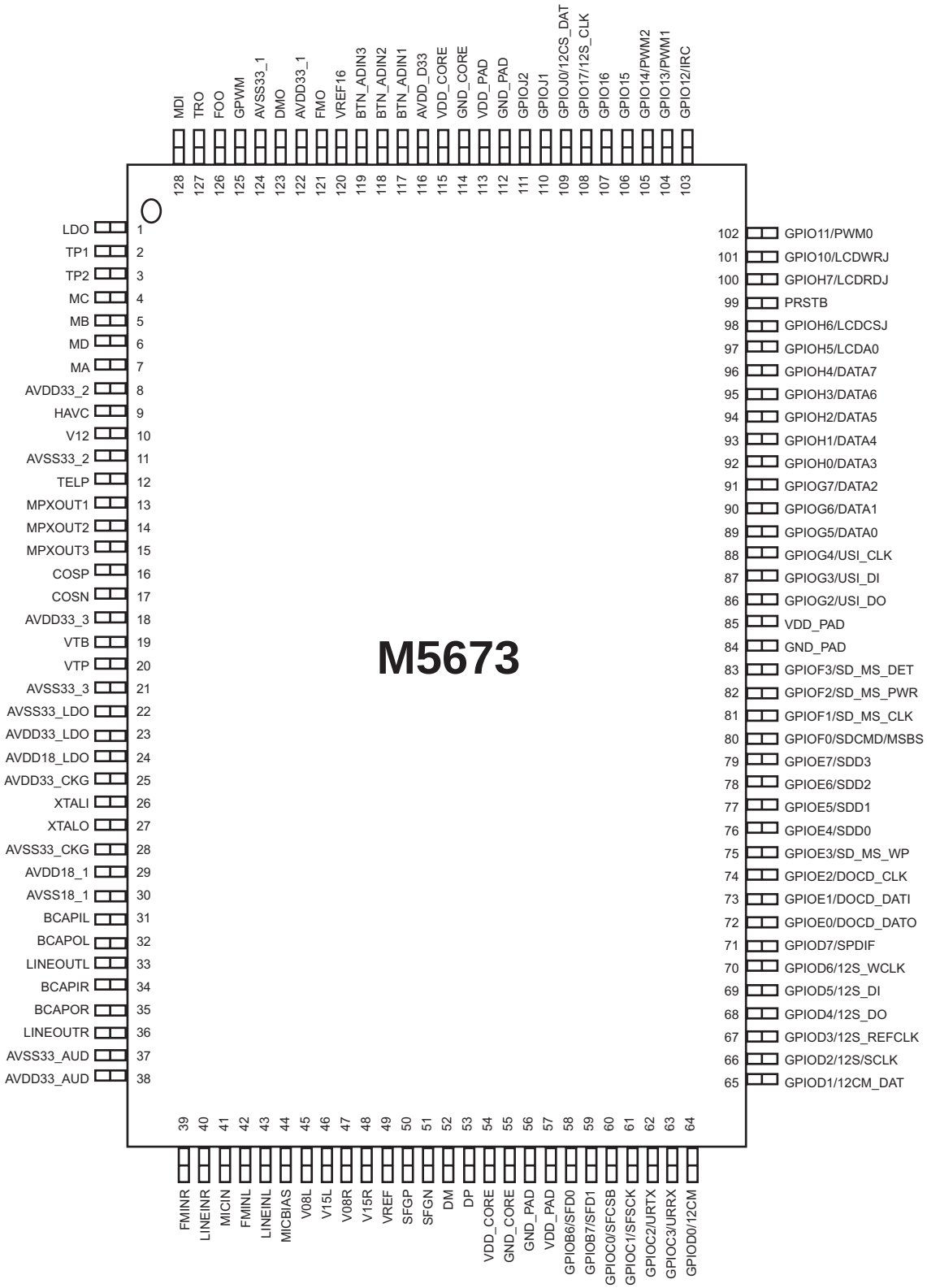


Figure 8-2 BLOCK DIAGRAM OF IC

U10 92L117ALiM5601 : CD,SD & USB Audio Single Chip Controller (M5673)(2/6)

PIN DESCRIPTION



U10 92L117ALiM5601 : CD,SD & USB Audio Single Chip Controller (M5673)(3/6)

PIN DESCRIPTION

PIN No.	Signal	Attribute	Description
1	LDO	O / A	Laser Driver Output of APC
2	TP1	I / A	3 Beam Satellite PD Positive Input
3	TP2	I / A	3 Beam Satellite PD Negative Input
4	MC	I / A	Input of Main Beam Signal (C)
5	MB	I / A	Input of Main Beam Signal (B)
6	MD	I / A	Input of Main Beam Signal (D)
7	MA	I / A	Input of Main Beam Signal (A)
8	AVDD33_2	P	Servo Analog Power
9	HAVC	O / A	Voltage Reference (programmable)
10	V12	O / A	Voltage Reference (1.2V)
11	AVSS33_2	G	Servo Analog Ground
12	TELP	O / A	Low Pass Filter Capacitor Connecting for TEZC Detection
13	MPXOUT1	O / A	Multiplexer output 1 for Analog Signal Monitoring.
14	MPXOUT2	O / A	Multiplexer output 2 for Analog Signal Monitoring.
15	MPXOUT3	O / A	Multiplexer output 3 for Analog Signal Monitoring.
16	COSP	O / A	External Capacitor Connection of Offset Cancellation Loop for VGA in EQRF Block (Positive)
17	COSN	O / A	External Capacitor Connection of Offset Cancellation Loop for VGA in EQRF Block (Negative)
18	AVDD33_3	P	PRML ADC Power
19	VTB	B / O	PRML ADC Voltage Control, connect to Capacitor
20	VTP	B / O	PRML ADC Voltage Control, connect to Capacitor
21	AVSS33_3	G	PRML ADC Ground
22	AVSS33_LDO	G	LDO ground
23	AVDD33_LDO	P	LDO 3.3V input
24	AVDD18_LDO	O / A	LDO 1.8V output
25	AVDD33_CKG	P	Clock Generator Power
26	XTALI	I / A	External XTAL (I) , 16.9344MHz
27	XTALO	O / A	External XTAL (O) , 16.9344MHz
28	AVSS33_CKG	G	Clock Generator Ground
29	AVDD18_1	P	Analog Power for PLL
30	AVSS18_1	G	Analog Ground for PLL
31	BICAPL	I / A	Left Channel Bass capacitor in
32	BOCAPL	O / A	Left Channel Bass capacitor out

U10 92L117ALiM5601 : CD,SD & USB Audio Single Chip Controller (M5673)(4/6)

PIN No.	Signal	Attribute	Description
33	LINEOUTL	O / A	Left Channel Audio out
34	BICAPR	I / A	Right channel Bass capacitor in
35	BOCAPR	O / A	Right channel Bass capacitor out
36	LINEOUTR	O / A	Right Channel Audio out
37	AVSS33_AUD	G	VSS of ADC/DAC
38	AVDD33_AUD	P	VDD of ADC/DAC
39	FMINR	I / A	Right channel ADC FM in
40	LINEINR	I / A	Right channel ADC line in
41	MICIN	I / A	ADC MIC in
42	FMINL	I / A	Left channel ADC FM in
43	LINEINL	I / A	Left channel ADC line in
44	MICBIAS	I / A	MIC DC bias
45	V08L	O / A	Left channel VCM reference
46	V15L	O / A	Left channel voltage reference
47	V08R	O / A	Right channel VCM reference
48	V15R	O / A	Right channel voltage reference
49	VREF	O / A	Internal resistor string provide Vref
50	SFGP	I / A	DISC stop pos input/GPIO
51	SFGN	I / A	DISC stop neg input/GPIO
52	DM		USB D-
53	DP		USB D+
54	VDD_CORE	P	Digital Core power
55	GND_CORE	G	Digital Core ground
56	GND_PAD	G	Digital PAD Ground
57	VDD_PAD	P	Digital PAD power
58	GPIOB6/SFDO	B / D	GPIOB6/Seriel flash data input
59	GPIOB7/SFDI	B / D	GPIOB7/Seriel flash data output
60	GPIOC0/SFCSB	B / D	GPIOC0/Seriel flash csj
61	GPIOC1/SFSCK	B / D	GPIOC1/Seriel flash clk
62	GPIOC2/URTX	B / D	GPIOC2/RS-232 TX
63	GPIOC3/URRX	B / D	GPIOC3/RS-232 RX
64	GPIOD0/I2CM_CLK	B / D	GPIOD0/I2C clk output (M5673 is master)
65	GPIOD1/I2CM_DAT	B / D	GPIOD1/I2C data (M5673 is master)
66	GPIOD2/I2S_SCLK	B / D	GPIOD2/I2S bit clk output
67	GPIOD3/I2S_REFCLK	B / D	GPIOD3/I2S system(reference) clk output
68	GPIOD4/I2S_DO	B / D	GPIOD4/I2S data output
69	GPIOD5/I2S_DI	B / D	GPIOD5/I2S data input
70	GPIOD6/I2S_WCLK	B / D	GPIOD6/I2S word clk (LRCK) output

U10 92L117ALiM5601 : CD,SD & USB Audio Single Chip Controller (M5673)(5/6)

PIN No.	Signal	Attribute	Description
71	GPIOD7/SPDIF	B / D	GPIOD7/SPDIF output
72	GPIOE0	B / D	GPIOE0
73	GPIOE1	B / D	GPIOE1
74	GPIOE2	B / D	GPIOE2
75	GPIOE3	B / D	GPIOE3
76	GPIOE4/SDD0	B / D	GPIOE4/SD Card data0
77	GPIOE5/SDD1	B / D	GPIOE5/SD Card data1
78	GPIOE6/SDD2	B / D	GPIOE6/SD Card data2
79	GPIOE7/SDD3	B / D	GPIOE7/SD Card data3
80	GPIOF0/SDCMD	B / D	GPIOF0/SD Card command
81	GPIOF1/SD_CLK	B / D	GPIOF/SD Card clk
82	GPIOF2	B / D	GPIOF2
83	GPIOF3	B / D	GPIOF3
84	GND_PAD	G	Digital PAD Ground
85	VDD_PAD	P	Digital PAD power
86	GPIOG2	B / D	GPIOG2
87	GPIOG3	B / D	GPIOG3
88	GPIOG4	B / D	GPIOG4
89	GPIOG5/LCDDB0	B / D	GPIOG5/LCD data0
90	GPIOG6/LCDDB1	B / D	GPIOG6/LCD data1
91	GPIOG7/LCDDB2	B / D	GPIOG7/LCD data2
92	GPIOH0/LCDDB3	B / D	GPIOH0/LCD data3
93	GPIOH1/LCDDB4	B / D	GPIOH1/LCD data4
94	GPIOH2/LCDDB5	B / D	GPIOH2/LCD data5
95	GPIOH3/LCDDB6	B / D	GPIOH3/LCD data6
96	GPIOH4/LCDDB7	B / D	GPIOH4/LCD data7
97	GPIOH5/LCDRS	B / D	GPIOH5/LCD status/command
98	GPIOH6/LCDCSJ	B / D	GPIOH6/LCD CSJ
99	PRSTB	B / D	Chip reset, low active
100	GPIOH7/LCDRDJ	B / D	GPIOH7/LCD read control signal
101	GPIOI0/LCDWRJ	B / D	GPIOI0/LCD write control signal
102	GPIOI1/PWM0/LCD_ALE	B / D	GPIO/PWM0 output/LCD ALE signal when address/data share bus
103	GPIOI2/IRC	B / D	GPIOI2/ remote controller received
104	GPIOI3/PWM1	B / D	GPIOI3/PWM1 output
105	GPIOI4/PWM2	B / D	GPIOI4/PWM2 output
106	GPIOI5	B / D	GPIOI5
107	GPIOI6	B / D	GPIOI6

U10 92L117ALiM5601 : CD,SD & USB Audio Single Chip Controller (M5673)(6/6)

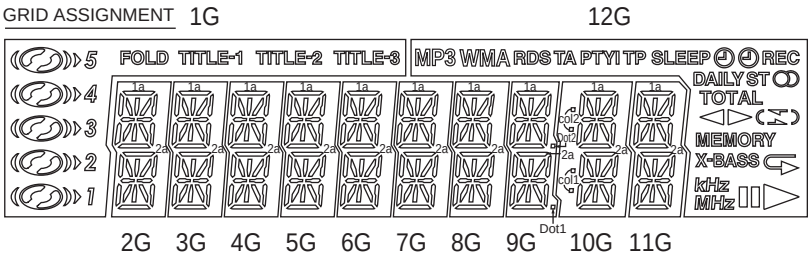
PIN No.	Signal	Attribute	Description
108	GPIOI7/I2CS_CLK	B / D	GPIOI7/I2C clk M5673 is slave
109	GPIOJ0/I2CS_DAT	B / D	GPIOJ0/I2C data when M5673 is slave
110	GPIOJ1	B / D	GPIOJ1
111	GPIOJ2	B / D	GPIOJ2
112	GND_PAD	G	Digital PAD Ground
113	VDD_PAD	P	Digital PAD power
114	GND_CORE	G	Digital Core ground
115	VDD_CORE	P	Digital Core power
116	AVDD_D33	P	3.3V for digital circuit in analog.
117	BTN_ADIN1	I / A	Bottom check input, connect to servo ADC
118	BTN_ADIN2	I / A	Bottom check input, connect to servo ADC
119	BTN_ADIN3	I / A	Bottom check input, connect to servo ADC
120	VREF16	O / A	SERVO DAC common mode voltage
121	FMO	O / A	Focus servo output. 3 level PWM output.
122	AVDD33_1	P	Servo Analog Power
123	DMO	O / A	Disk motor control output. 3 level PWM output.
124	AVSS33_1	G	Servo Anolog Ground
125	GPWM	O / A	General purpose 3 level PWM output
126	FOO	O / A	Focus servo output. 3 level PWM output.
127	TRO	O / A	Tracking servo output. 3 level PWM output.
128	MDI	I / A	Laser Power Monitor Input For APC

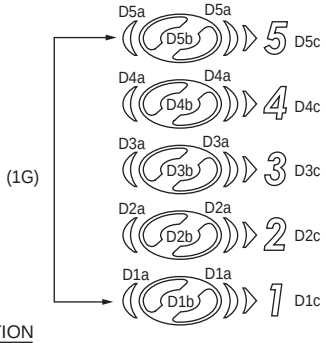
The definitions of the signal attributes:
D: Digital
I: Input
O: Output
B: Bi-direction
P: Power
G: Ground
A: Analog Pad

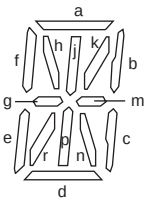
[2] FL Display

FL701 VVKNA12MM54-1

GRID ASSIGNMENT







ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G
P1	FOLD	1a	1a	1a	1a	1a	1a	1a	1a	1a	1a	
P2	TITLE-1	1b	1b	1b	1b	1b	1b	1b	1b	1b	1b	
P3	TITLE-2	1k	1k	1k	1k	1k	1k	1k	1k	1k	1k	TOTAL
P4	TITLE-3	1j	1j	1j	1j	1j	1j	1j	1j	1j	1j	RDS
P5	5	1h	1h	1h	1h	1h	1h	1h	1h	1h	1h	TA
P6	D5a	1f	1f	1f	1f	1f	1f	1f	1f	1f	1f	WMA
P7	D5b	1m	1m	1m	1m	1m	1m	1m	1m	1m	1m	PTYI
P8	D5c	1d	1d	1d	1d	1d	1d	1d	1d	1d	1d	TP
P9	4	1g	1g	1g	1g	1g	1g	1g	1g	1g	1g	SLEEP
P10	D4a	1p	1p	1p	1p	1p	1p	1p	1p	1p	1p	DAILY
P11	D4b	1e	1e	1e	1e	1e	1e	1e	1e	1e	1e	(L)
P12	D4c	1n	1n	1n	1n	1n	1n	1n	1n	1n	1n	(R)
P13	3	1r	1r	1r	1r	1r	1r	1r	1r	1r	1r	REC
P14	D3a	1c	1c	1c	1c	1c	1c	1c	1c	1c	1c	ST
P15	D3b	2a	2a	2a	2a	2a	2a	2a	2a	2a	2a	◁
P16	D3c	2b	2b	2b	2b	2b	2b	2b	2b	2b	2b	▷
P17	2	2k	2k	2k	2k	2k	2k	2k	2k	2k	2k	∞
P18	D2a	2j	2j	2j	2j	2j	2j	2j	2j	2j	2j	(
P19	D2b	2h	2h	2h	2h	2h	2h	2h	2h	2h	2h	1
P20	D2c	2f	2f	2f	2f	2f	2f	2f	2f	2f	2f	)
P21	1	2m	2m	2m	2m	2m	2m	2m	2m	2m	2m	MEMORY
P22	D1a	2d	2d	2d	2d	2d	2d	2d	2d	2d	2d	
P23	D1b	2g	2g	2g	2g	2g	2g	2g	2g	2g	2g	(II)
P24	D1c	2p	2p	2p	2p	2p	2p	2p	2p	2p	2p	kHz
P25		2e	2e	2e	2e	2e	2e	2e	2e	2e	2e	MHz
P26		2n	2n	2n	2n	2n	2n	2n	2n	2n	2n	II
P27		2r	2r	2r	2r	2r	2r	2r	2r	2r	2r	MP3
P28		2c	2c	2c	2c	2c	2c	2c	2c	2c	2c	X-BASS
P29									Dot1	Col1		
P30									Dot2	Col2		

OUTER DIMENSIONS

PIN CONNECTION

PIN NO.	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26
CONNECTION	F2	F2	NP	NP	P30	P29	P28	P27	P26	P25	P24	P23	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11	P10	P9

PIN NO.	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	P8	P7	P6	P5	P4	P3	P2	P1	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	NX	NX	2G	1G	NP	F1	F1

SHARP PARTS GUIDE

MINI COMPONENT SYSTEM

MODEL CD-SW440N

CD-SW440N Mini Component System consisting of CD-SW440N (main unit), CP-S440N (speaker system) and CP-SW440N (subwoofer).

CONTENTS

[1] INTEGRATED CIRCUITS
[2] TRANSISTORS
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[6] CRYSTALS / VIBRATORS
[7] CAPACITORS
[8] RESISTORS
[9] OTHER CIRCUITRY PARTS
[10] CABINET PARTS / CD MECHANISM PARTS
[11] FRONT SPEAKER BOX PARTS
[12] SUBWOOFER BOX PARTS
[13] ACCESSORIES / PACKING PARTS
[14] P.W.B. ASSEMBLY
[15] OTHER SERVICE PARTS

Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK ..... Ceramic type
VCT ..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN ..... Cylindrical type (without lead wire)
VC • • TV ..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS ..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN ..... Cylindrical type (without lead wire)
VR • • TV ..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

Explanation of PWB Assembly parts code category

S Category -- Repair (Component parts of PWB can be replace and repair, PWB no supply)
X Category -- Replacement (PWB can not be repair. Component parts no supply)
S.X Category -- Repair and Replacement (PWB can repair and replace)
KG Category -- Revolve repair by Business Center (Return to Business Center and repair by manufacturer. Component parts no supply)

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

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The contents are subject to change without notice.

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[1] INTEGRATED CIRCUITS					
iC101	VHi341S2161-1	AQ			Apple Authentication Class 3 IC
iC301	VHiTDA8920CJ1	AY			D-Class Power IC, TDA8920
iC401	VHiAN7345K/-1	AM			Pre Amp, AN7345
iC503	VHiAZ4558CME1	AD			Pre Amplifier, AZ4558
iC603	VHiBH3547F+-1	AE			Headphone Amplifier
iC604	VHiAZ4558CME1	AD			Pre Amplifier, AZ4558
iC701	VHiM66005AHP1	AS			FL Driver
iC702	VHiAP2213M33E	AE			Voltage Regulator, 3.3V
iC851	VHiAN80T53/-1	AL			Multi Regulator, AN80T53
iC852	VHiKiA7805AP1	AF			Constant Voltage Regulator, KIA7805AP
iC853	VHiAP2213M33E	AE			Voltage Regulator, 3.3V
iC855	VHiTPS2052BD1	AH			Dual Channel Current
iC901	VHiTDA8920CJ1	AY			D-Class Power IC, TDA8920
iC902	VHi74HCU04P-1	AD			Inverter IC, 74HCU04
U1	92L117R5F21201				R5F212A8, 64 Pin
U2	92L1170024C021				S524A40X21
U3	92L117NJU73911				NJU7391V
U6	92L117Si473001				Si4730, 20 Pin
U8	92L117000045582	AC			4558
U10	92L117ALiM5601				ALiM5673, 128 Pin
U11	92L117EON2M001				EON 2M FLASH
U12	92L1170AM58881	AF			AM5888, 28 Pin
[2] TRANSISTORS					
Q1	92L113000080501				8050
Q2	92L113000085501				8550
Q3	92L113KRC104S1				KRC104 S
Q4	92L113KRC104S1				KRC104 S
Q5	92L1132SB11323				2SB1132
Q6	92L113000085501				8550
Q7	92L113000080501				8050
Q8	92L1132SB77201				2SB772,PNP,3A/30V
Q9	92L113000039042	AB			3904
Q11	92L113KRC104S1				KRC104 S
Q13	92L113KRC104S1				KRC104 S
Q100	VSKRA107S//-1	AB			Digital,PNP,KRA107 S
Q324	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q325	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q405	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q406	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q502	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q503	VSKTC3205Y/-1	AD			Silicon,NPN,KTC3205 Y
Q504	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q506	VSKTC3203Y/-1	AC			Silicon,NPN,KTC3203 Y
Q507	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q601	VSKRA102S//-1	AB			Digital,PNP,KRA102 S
Q602	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q603	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q604	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q605	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q606	VSKTA1504GR-1	AB			Silicon,PNP,KTA1504 GR
Q607	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q608	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q709	92L113000085501				8550
Q711	92L113000085501				8550
Q801	VSKTA1274Y/-1	AE			Silicon,PNP,KTA1274 Y
Q841	VSKTC3199GR-1	AB			Silicon,NPN,KTC3199 GR
Q851	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q852	VSKTA1504GR-1	AB			Silicon,PNP,KTA1504 GR
Q853	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q902	VSKTC3203Y/-1	AC			Silicon,NPN,KTC3203 Y
Q903	VSKTA1266GR-1	AB			Silicon,PNP,KTA1266 GR
Q904	VSKTC3203Y/-1	AC			Silicon,NPN,KTC3203 Y
Q906	VSKTC3203Y/-1	AC			Silicon,NPN,KTC3203 Y
Q922	VSKRC107S//-1	AB			Digital,NPN,KRC107 S
Q923	VSKRC107S//-1	AB			Digital,NPN,KRC107 S
Q924	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q925	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q926	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q927	VSKTA1504GR-1	AB			Silicon,PNP,KTA1504 GR
Q928	VSKRA107S//-1	AB			Digital,PNP,KRA107 S
Q929	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
[3] DIODES					
D1	92L10901N41482	AB			1N4148
D2	92L10901N41482	AB			1N4148
D3	92L10901N41482	AB			1N4148
D4	92L10901N41482	AB			1N4148
D5	92L10901N41482	AB			1N4148
D6	92L10901N41482	AB			1N4148
D7	92L10901N41482	AB			1N4148
D8	92L10901N41482	AB			1N4148
D10	92L10901N41482	AB			1N4148
D11	92L10901N41482	AB			1N4148
D12	92L10901N41482	AB			1N4148
D13	92L10901N41482	AB			1N4148
D14	92L10901N41482	AB			1N4148

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[3] DIODES					
D15	92L10901N41482	AB			1N4148
D104	VHDMA111G++-1	AB			Silicon,MA111
D105	VHDMA111G++-1	AB			Silicon,MA111
D108	VHDMA111G++-1	AB			Silicon,MA111
D109	VHDMA111G++-1	AB			Silicon,MA111
D312	VHDHSS4148+-1	AA			Silicon,HSS4148
D313	VHDHSS4148+-1	AA			Silicon,HSS4148
D320	VHDMA111G++-1	AB			Silicon,MA111
D321	VHDMA111G++-1	AB			Silicon,MA111
D322	VHDMA111G++-1	AB			Silicon,MA111
D323	VHDMA111G++-1	AB			Silicon,MA111
D328	VHD1N4004S/-1	AB			Silicon,1N4004S
D329	VHD1N4004S/-1	AB			Silicon,1N4004S
D330	VHDMA111G++-1	AB			Silicon,MA111
D501	VHDMA111G++-1	AB			Silicon,MA111
D503	VHDMA111G++-1	AB			Silicon,MA111
D504	VHDMA111G++-1	AB			Silicon,MA111
D506	VHDHSS4148+-1	AA			Silicon,HSS4148
D508	VHDMA111G++-1	AB			Silicon,MA111
D510	VHDHSS4148+-1	AA			Silicon,HSS4148
D601	VHDMA111G++-1	AB			Silicon,MA111
D602	VHDMA111G++-1	AB			Silicon,MA111
D606	VHDHSS4148+-1	AA			Silicon,HSS4148
D607	VHDMA111G++-1	AB			Silicon,MA111
D608	VHDHSS4148+-1	AA			Silicon,HSS4148
D609	VHDMA111G++-1	AB			Silicon,MA111
D611	VHDMA111G++-1	AB			Silicon,MA111
D612	VHDMA111G++-1	AB			Silicon,MA111
D701	VHDMA111G++-1	AB			Silicon,MA111
D702	VHDMA111G++-1	AB			Silicon,MA111
D703	VHDHSS4148+-1	AA			Silicon,HSS4148
D802	VHDD10XB60F-1	AL			Rectifier, D10XB60
D803	VHDGDRL204+-1	AC			Silicon,RL204
D804	VHDGDRL204+-1	AC			Silicon,RL204
D805	VHD1N4004S/-1	AB			Silicon,1N4004S
D806	VHD1N4004S/-1	AB			Silicon,1N4004S
D812	VHD1N4004S/-1	AB			Silicon,1N4004S
D813	VHD1N4004S/-1	AB			Silicon,1N4004S
D814	VHD1N4004S/-1	AB			Silicon,1N4004S
D815	VHD1N4004S/-1	AB			Silicon,1N4004S
D842	VHD1N4004S/-1	AB			Silicon,1N4004S
D843	VHD1N4004S/-1	AB			Silicon,1N4004S
D844	VHD1N4004S/-1	AB			Silicon,1N4004S
D845	VHD1N4004S/-1	AB			Silicon,1N4004S
D846	VHD1N4004S/-1	AB			Silicon,1N4004S
D851	VHDMA111G++-1	AB			Silicon,MA111
D852	VHDHSS4148+-1	AA			Silicon,HSS4148
D853	VHD1N4004S/-1	AB			Silicon,1N4004S
D854	VHDHSS4148+-1	AA			Silicon,HSS4148
D855	VHDMA111G++-1	AB			Silicon,MA111
D856	VHDMA111G++-1	AB			Silicon,MA111
D857	VHDHSS4148+-1	AA			Silicon,HSS4148
D859	VHDMA111G++-1	AB			Silicon,MA111
D860	VHDMA111G++-1	AB			Silicon,MA111
D901	VHDGD1A4+++-1	AB			Silicon,GD1A4
D902	VHDGD1A4+++-1	AB			Silicon,GD1A4
D903	VHDGD1A4+++-1	AB			Silicon,GD1A4
D912	VHDMA111G++-1	AB			Silicon,MA111
D913	VHDHSS4148+-1	AA			Silicon,HSS4148
D920	VHDMA111G++-1	AB			Silicon,MA111
D921	VHDMA111G++-1	AB			Silicon,MA111
D922	VHDMA111G++-1	AB			Silicon,MA111
D923	VHDMA111G++-1	AB			Silicon,MA111
D928	VHD1N4004S/-1	AB			Silicon,1N4004S
D929	VHD1N4004S/-1	AB			Silicon,1N4004S
D930	VHDMA111G++-1	AB			Silicon,MA111
LED504	VHPSDPB40F2AC	AH			LED,Blue
LED701	VHPSLR343VC3F	AC			LED,Red
LED702	VHPSDPB40F2AC	AH			LED,Blue
ZD1	92L11000910052	AB			Zener, 9.1V
ZD2	92L11000560051				Zener, 5.6V
ZD3	92L11000560051				Zener, 5.6V
ZD801	VHEZJ6R2A++1E	AB			Zener, 6.2V
ZD802	VHEZJ6R2A++1E	AB			Zener, 6.2V
ZD803	VHEZJ30B+++1E	AB			Zener, 30V
ZD860	VHEZJ6R8B++1E	AB			Zener, 6.8V
ZD861	VHEZJ6R8B++1E	AB			Zener, 6.8V
ZD862	VHEZJ15B+++1E	AB			Zener, 15V
ZD901	VHEZJ10B+++1E	AB			Zener, 10V
ZD902	VHEZJ30B+++1E	AB			Zener, 30V
ZD903	VHEZJ6R2A++1E	AB			Zener, 6.2V
ZD904	VHEZJ24B+++1E	AB			Zener, 24V
ZD905	VHEZJ10B+++1E	AB			Zener, 10V
ZD906	RH-EXA523WJZZ	AB			Zener, 5.6V
[4] TRANSFORMERS					
⚠ PT801	RTRNPA146AWZZ				Power (Main)
⚠ PT841	RTRNPA078AWZZ	AM			Power (Sub)

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[5] COILS					
FB7	92L10606030008	AA			Impedence, 300
FB10	92L10606030008	AA			Impedence, 300
FB11	92L10606030008	AA			Impedence, 300
FB12	92L10606030008	AA			Impedence, 300
FB13	92L10606030008	AA			Impedence, 300
FB14	92L10606030008	AA			Impedence, 300
FB15	92L10606030008	AA			Impedence, 300
FB16	92L10606030008	AA			Impedence, 300
FB17	92L10606030008	AA			Impedence, 300
FB18	92L10606030008	AA			Impedence, 300
FB19	92L10606030008	AA			Impedence, 300
FB20	92L10606030008	AA			Impedence, 300
FB21	92L10606030008	AA			Impedence, 300
FB22	92L10606030008	AA			Impedence, 300
FB23	92L10606030008	AA			Impedence, 300
FB24	92L10606030008	AA			Impedence, 300
FB25	92L10606030008	AA			Impedence, 300
FB26	92L10606030008	AA			Impedence, 300
FB27	92L10606030008	AA			Impedence, 300
FB28	92L10606030008	AA			Impedence, 300
FB29	92L10606030008	AA			Impedence, 300
FB30	92L10606030008	AA			Impedence, 300
FB31	92L10606030008	AA			Impedence, 300
FB32	92L10606030008	AA			Impedence, 300
FB33	92L10606030008	AA			Impedence, 300
FB44	92L10606030008	AA			Impedence, 300
FB45	92L10606030008	AA			Impedence, 300
FB46	92L10606030008	AA			Impedence, 300
FB47	92L10606030008	AA			Impedence, 300
FB48	92L10606030008	AA			Impedence, 300
FB49	92L10606030008	AA			Impedence, 300
FB50	92L10606030008	AA			Impedence, 300
FB52	92L10606030008	AA			Impedence, 300
FB53	92L10606030008	AA			Impedence, 300
FB54	92L10606030008	AA			Impedence, 300
FB55	92L10606030008	AA			Impedence, 300
FB56	92L10606030008	AA			Impedence, 300
FB57	92L10606030008	AA			Impedence, 300
FB59	92L10606030008	AA			Impedence, 300
FB60	92L10606030008	AA			Impedence, 300
FB61	92L10606030008	AA			Impedence, 300
FB63	92L10606030008	AA			Impedence, 300
FB64	92L10606030008	AA			Impedence, 300
FB65	92L10606030008	AA			Impedence, 300
FB66	92L10606030008	AA			Impedence, 300
FB67	92L10606030008	AA			Impedence, 300
FB68	92L10606030008	AA			Impedence, 300
FB69	92L10606030008	AA			Impedence, 300
FB70	92L10606030008	AA			Impedence, 300
FB71	92L10606030008	AA			Impedence, 300
FB72	92L10606030008	AA			Impedence, 300
FB73	92L10606030008	AA			Impedence, 300
FB74	92L10606030008	AA			Impedence, 300
FB75	92L10606030008	AA			Impedence, 300
FB76	92L10606030008	AA			Impedence, 300
FB77	92L10606030008	AA			Impedence, 300
FB78	92L10606030008	AA			Impedence, 300
FB79	92L10606030008	AA			Impedence, 300
FB88	92L10606030008	AA			Impedence, 300
FB90	92L10606030008	AA			Impedence, 300
FB91	92L10606030008	AA			Impedence, 300
FB93	92L10606030008	AA			Impedence, 300
FB95	92L10606030008	AA			Impedence, 300
FB96	92L10606030008	AA			Impedence, 300
FB611	RBLN-0061TAZZ	AB			Chip Ferrite Core
FB612	RBLN-0061TAZZ	AB			Chip Ferrite Core
FB613	RBLN-0061TAZZ	AB			Chip Ferrite Core
L1	92L10606030011				Impedence, 80, 100MHz
L2	92L10606030011				Impedence, 80, 100MHz
L3	92L10606030011				Impedence, 80, 100MHz
L4	92L10606030011				Impedence, 80, 100MHz
L5	92L10606030011				Impedence, 80, 100MHz
L6	92L10606030011				Impedence, 80, 100MHz
L7	92L10606030011				Impedence, 80, 100MHz
L8	92L10606030011				Impedence, 80, 100MHz
L9	92L10606030011				Impedence, 80, 100MHz
L10	92L10606030011				Impedence, 80, 100MHz
L11	92L10606030011				Impedence, 80, 100MHz
L12	92L10606030011				Impedence, 80, 100MHz
L13	92L10606030011				Impedence, 80, 100MHz
L18	92L10606030011				Impedence, 80, 100MHz
L30	92L10606030011				Impedence, 80, 100MHz
L320	RCiLZ0055AWZZ	AH			Coil
L323	RCiLZ2130SCT5	AC			Coil
L324	RCiLZ2130SCT5	AC			Coil
L325	RCiLZ0024AWZZ	AF			22 mH, Peaking
L702	VP-DH220K0000	AB			22 µ H, Peaking
⚠ L844	RCiLZ0021AWZZ	AF			AC Line Filter
L920	RCiLZ0055AWZZ	AH			Coil

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[5] COILS					
L921	RCiLZ0055AWZZ	AH			Coil
L923	RCiLZ2130SCT5	AC			Coil
L924	RCiLZ2130SCT5	AC			Coil
L925	RCiLZ0024AWZZ	AF			22 mH, Peaking
L927	RCiLZ0049AWZZ	AH			Coil
L928	RCORF0015AWZZ	AB			Core
T1	92L108SL755TF1				AM Coil
[6] CRYSTALS / VIBRATORS					
X901	RCRM-A019AWZZ	AD			Resonator 830K
X902	RCRM-A018AWZZ	AD			Resonator 750K
Y1	92L12780000202				Crystal, 8 MHz
Y2	92L12732768203				Crystal, 32.768 KHz
Y3	92L12732768203				Crystal, 32.768 KHz
Y4	92L12716920102				Crystal, 16.9344 MHz
[7] CAPACITORS					
BC1	92L104104Z0601	AA			0.1 µF,50V
BC2	92L104104Z0601	AA			0.1 µF,50V
BC3	92L104104Z0601	AA			0.1 µF,50V
BC4	92L104104Z0601	AA			0.1 µF,50V
BC5	92L104104Z0601	AA			0.1 µF,50V
BC6	92L104104Z0601	AA			0.1 µF,50V
BC7	92L104104Z0601	AA			0.1 µF,50V
C1	92L104104Z0601	AA			0.1 µF,50V
C2	92L104104Z0601	AA			0.1 µF,50V
C3	92L104104Z0601	AA			0.1 µF,50V
C4	92L104104Z0601	AA			0.1 µF,50V
C5	92L104104Z0601	AA			0.1 µF,50V
C6	92L104104Z0601	AA			0.1 µF,50V
C7	92L104220J0601				22 pF,50V
C8	92L104220J0601				22 pF,50V
C9	92L104220J0601				22 pF,50V
C10	92L104220J0601				22 pF,50V
C11	92L104104Z0601	AA			0.1 µF,50V
C12	92L104105M0606				1 µF,50V,Electrolytic
C13	92L104272K0601				2700 pF,50V
C14	92L104105M0606				1 µF,50V,Electrolytic
C15	92L104106M0407				10 µF,25V,Electrolytic
C16	92L104105M0606				1 µF,50V,Electrolytic
C17	92L104475M0202	AB			4.7 µF,10V
C18	92L104154K0601				0.15 µF,50V
C19	92L104184K0601				0.18 µF,50V
C20	92L104105M0606				1 µF,50V,Electrolytic
C21	92L104105M0601	AA			1 µF,50V
C22	92L104472K0601				4700 pF,50V
C23	92L104105M0606				1 µF,50V,Electrolytic
C24	92L104104Z0601	AA			0.1 µF,50V
C25	92L104105M0606				1 µF,50V,Electrolytic
C26	92L104105M0601	AA			1 µF,50V
C27	92L104105M0606				1 µF,50V,Electrolytic
C28	92L104472K0601				4700 pF,50V
C29	92L104105M0606				1 µF,50V,Electrolytic
C30	92L104154K0601				0.15 µF,50V
C31	92L104184K0601				0.18 µF,50V
C32	92L104475M0202	AB			4.7 µF,10V
C33	92L104105M0606				1 µF,50V,Electrolytic
C34	92L104106M0407				10 µF,25V,Electrolytic
C35	92L104330J0601				33 pF,50V
C36	92L104330J0601				33 pF,50V
C37	92L104105M0606				1 µF,50V,Electrolytic
C38	92L104272K0601				2700 pF,50V
C39	92L104104Z0601	AA			0.1 µF,50V
C40	92L104105M0601	AA			1 µF,50V
C41	92L104102K0601				1000 pF,50V
C42	92L104105M0601	AA			1 µF,50V
C43	92L104105M0601	AA			1 µF,50V
C44	92L104105M0601	AA			1 µF,50V
C45	92L104681J0601				680 pF,50V
C46	92L104102K0601				1000 pF,50V
C47	92L104300J0601				30 pF,50V
C48	92L104820J0601	AA			82 pF,50V
C49	92L104474Z0301				0.47 µF,16V
C50	92L104104Z0601	AA			0.1 µF,50V
C53	92L104220J0601				22 pF,50V
C54	92L104220J0601				22 pF,50V
C56	92L104820J0601	AA			82 pF,50V
C57	92L104475M0601				4.7 µF,50V,Electrolytic
C58	92L104475M0601				4.7 µF,50V,Electrolytic
C59	92L104102K0601				1000 pF,50V
C60	92L104682K0601				6800 pF,50V
C63	92L104104Z0601	AA			0.1 µF,50V
C64	92L104104Z0601	AA			0.1 µF,50V
C65	92L104104Z0601	AA			0.1 µF,50V
C66	92L104104Z0601	AA			0.1 µF,50V
C67	92L104104Z0601	AA			0.1 µF,50V
C68	92L104104Z0601	AA			0.1 µF,50V
C69	92L104104Z0601	AA			0.1 µF,50V

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[7] CAPACITORS					
C70	92L104104Z0601	AA			0.1 µF,50V
C71	92L104104Z0601	AA			0.1 µF,50V
C72	92L104104Z0601	AA			0.1 µF,50V
C73	92L104104Z0601	AA			0.1 µF,50V
C74	92L104104Z0601	AA			0.1 µF,50V
C75	92L104104Z0601	AA			0.1 µF,50V
C76	92L104104Z0601	AA			0.1 µF,50V
C77	92L104104Z0601	AA			0.1 µF,50V
C78	92L104104Z0601	AA			0.1 µF,50V
C79	92L104104Z0601	AA			0.1 µF,50V
C80	92L104104Z0601	AA			0.1 µF,50V
C81	92L104104Z0601	AA			0.1 µF,50V
C82	92L104105M0601	AA			1 µF,50V
C83	92L104104Z0601	AA			0.1 µF,50V
C84	92L104104Z0601	AA			0.1 µF,50V
C85	92L104104Z0601	AA			0.1 µF,50V
C86	92L104104Z0601	AA			0.1 µF,50V
C87	92L104300J0601				30 pF,50V
C88	92L104104Z0601	AA			0.1 µF,50V
C89	92L104104Z0601	AA			0.1 µF,50V
C90	92L104823M0602				0.082 µF,50V
C91	92L104300J0601				30 pF,50V
C92	92L104823M0602				0.082 µF,50V
C93	92L104103K0601				0.01 µF,50V
C94	92L104104Z0601	AA			0.1 µF,50V
C95	92L104104Z0601	AA			0.1 µF,50V
C96	92L104474Z0301				0.47 µF,16V
C97	92L104104Z0601	AA			0.1 µF,50V
C98	92L104104Z0601	AA			0.1 µF,50V
C99	92L104104Z0601	AA			0.1 µF,50V
C100	92L104104Z0601	AA			0.1 µF,50V [Use in Servo PWB-B]
C100	VCCCCY1HH101J	AA			100 pF(CH),50V [Use in iPOD PWB-C]
C101	92L104473Z0601				0.047 µF,50V [Use in Servo PWB-B]
C101	VCKYCY1EF104Z	AA			0.1 µF,25V [Use in iPOD PWB-C]
C102	92L104103K0601				0.01 µF,50V
C103	92L104101J0601				100 pF,50V
C104	92L104107M0201				100 µF,10V,Electrolytic [Use in Servo PWB-B]
C104	VCKYCY1EF104Z	AA			0.1 µF,25V [Use in iPOD PWB-C]
C105	92L104104Z0601	AA			0.1 µF,50V
C106	92L104101J0601				100 pF,50V
C108	92L104682K0601				6800 pF,50V [Use in Servo PWB-B]
C108	VCEAPS226AF1C	AC			22 µF,16V,Electrolytic [Use in iPOD PWB-C]
C110	92L104102K0601				1000 pF,50V [Use in Servo PWB-B]
C110	VCKYCY1HB102K	AA			0.001 µF,50V [Use in iPOD PWB-C]
C111	VCCCCY1HH101J	AA			100 pF(CH),50V
C112	92L104104Z0601	AA			0.1 µF,50V [Use in Servo PWB-B]
C112	VCKYCY1HB102K	AA			0.001 µF,50V [Use in iPOD PWB-C]
C113	92L104475M0601				4.7 µF,50V,Electrolytic [Use in Servo PWB-B]
C113	VCKYCY1EF104Z	AA			0.1 µF,25V [Use in iPOD PWB-C]
C114	92L104107M0406				100 µF,25V,Electrolytic [Use in Servo PWB-B]
C114	VCEAPS106AF1C	AB			10 µF,16V,Electrolytic [Use in iPOD PWB-C]
C115	92L104103K0601				0.01 µF,50V
C116	92L104331K0601				330 pF,50V
C118	VCKYCY1CF105Z	AB			1 µF,16V
C120	92L104331K0601				330 pF,50V
C121	92L104681J0601				680 pF,50V
C144	92L104475M0601				4.7 µF,50V,Electrolytic
C165	92L104107M0406				100 µF,25V,Electrolytic
C166	92L104104Z0601	AA			0.1 µF,50V
C167	92L104104Z0601	AA			0.1 µF,50V
C170	92L104104Z0601	AA			0.1 µF,50V
C200	92L104104Z0601	AA			0.1 µF,50V
C307	VCEAZA1VW477M	AD			470 µF,35V,Electrolytic
C308	VCKYPA1HB271K	AA			270 pF,50V
C309	VCEAZA1VW477M	AD			470 µF,35V,Electrolytic
C310	VCKYPA1HB271K	AA			270 pF,50V
C311	VCEAZA2AW476M	AD			47 µF,100V,Electrolytic
C321	VCKYCY1HB102K	AA			1000 pF,50V
C322	VCKYTV1HB474K	AC			0.47 µF,50V
C324	VCKYTV1HB474K	AC			0.47 µF,50V
C325	VCKYCY1HB221K	AA			220 pF,50V
C328	VCCCCY1HH100D	AA			10 pF(CH),50V
C329	VCKYTV1HB104K	AB			0.1 µF,50V
C330	VCKYTV1HB104K	AB			0.1 µF,50V
C331	VCKYCY1HB104K	AD			0.1 µF,50V
C332	VCKYCY1HB153K	AA			0.015 µF,50V
C333	VCKYTV1HB474K	AC			0.47 µF,50V
C334	VCKYCY1HB104K	AD			0.1 µF,50V
C335	VCKYCY1HB153K	AA			0.015 µF,50V
C336	VCKYTV1HB104K	AB			0.1 µF,50V
C337	VCKYTV1HB104K	AB			0.1 µF,50V
C338	VCKYTV1HB224K	AC			0.22 µF,50V
C339	VCKYTV1HB224K	AC			0.22 µF,50V
C340	VCKYTV1HB474K	AC			0.47 µF,50V
C341	VCKYCY1HB221K	AA			220 pF,50V
C342	VCKYTV1HB474K	AC			0.47 µF,50V
C344	VCKYCY1HB102K	AA			1000 pF,50V
C345	VCEAZA1HW335M	AB			3.3 µF,50V,Electrolytic
C346	VCKYCY1VB105K	AB			1 µF,35V

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[7] CAPACITORS					
C347	VCKYCY1HB104K	AD			0.1 µF,50V
C348	VCKYCY1HB104K	AD			0.1 µF,50V
C349	VCKYCY1HB153K	AA			0.015 µF,50V
C350	VCKYCY1HB153K	AA			0.015 µF,50V
C353	VCKYCY1HB153K	AA			0.015 µF,50V
C354	VCFYFA1HA103J	AK			0.01 µF,50V,Thin film
C356	VCFYFA1HA474J	AC			0.47 µF,50V,Thin film
C357	VCFYFA1HA474J	AC			0.47 µF,50V,Thin film
C362	VCKYCY1HB104K	AD			0.1 µF,50V
C363	VCKYCY1HB104K	AD			0.1 µF,50V
C368	VCKYCY1HB221K	AA			220 pF,50V
C369	VCKYCY1HB221K	AA			220 pF,50V
C370	VCKYCY1HB221K	AA			220 pF,50V
C371	VCKYCY1HB221K	AA			220 pF,50V
C372	VCKYCY1HB104K	AD			0.1 µF,50V
C373	VCKYCY1HB104K	AD			0.1 µF,50V
C405	VCKYCY1HB821K	AA			820 pF,50V
C406	VCKYCY1HB821K	AA			820 pF,50V
C411	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C412	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C413	VCKYCY1HB333K	AB			0.033 µF,50V
C414	VCKYCY1HB333K	AB			0.033 µF,50V
C415	VCKYCY1HB561K	AA			560 pF,50V
C416	VCKYCY1HB561K	AA			560 pF,50V
C417	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C418	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C419	VCKYCY1HB222K	AA			2200 pF,50V
C420	VCKYCY1HB222K	AA			2200 pF,50V
C421	VCKYCY1EF223Z	AB			0.022 µF,25V
C433	VCEAZA1EW226M	AB			22 µF,25V,Electrolytic
C434	VCEAZA1AW227M	AC			220 µF,10V,Electrolytic
C435	VCKYCY1EF223Z	AB			0.022 µF,25V
C443	VCEAZA1HW335M	AB			3.3 µF,50V,Electrolytic
C450	VCEAZA1HW106M	AB			10 µF,50V,Electrolytic
C501	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C507	VCEAZA1HW106M	AB			10 µF,50V,Electrolytic
C508	VCCCCY1HH101J	AA			100 pF(CH),50V
C509	VCEAZA1HW106M	AB			10 µF,50V,Electrolytic
C510	VCKYCY1HB102K	AA			1000 pF,50V
C511	VCEAZA1HW475M	AB			4.7 µF,50V,Electrolytic
C512	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C513	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C517	VCEAZA1HW106M	AB			10 µF,50V,Electrolytic
C518	VCEAZA1CW477M	AC			470 µF,16V,Electrolytic
C519	VCEAZA1HW475M	AB			4.7 µF,50V,Electrolytic
C520	VCCCCY1HH101J	AA			100 pF(CH),50V
C523	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C528	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C530	VCKYTV1HB334K	AC			0.33 µF,50V
C531	VCKYCY1HB102K	AA			1000 pF,50V
C532	VCKYCY1CB823K	AB			0.082 µF,16V
C533	VCKYCY1EF104Z	AA			0.1 µF,25V
C601	VCKYCY1HB471K	AA			470 pF,50V
C602	VCKYCY1HB471K	AA			470 pF,50V
C603	VCKYCY1HB331K	AA			330 pF,50V
C604	VCKYCY1HB331K	AA			330 pF,50V
C605	VCKYCY1HB104K	AD			0.1 µF,50V
C614	VCEAZA1HW106M	AB			10 µF,50V,Electrolytic
C616	VCCCCY1HH470J	AA			47 pF(CH),50V
C617	VCCCCY1HH470J	AA			47 pF(CH),50V
C618	VCKYCY1HB103K	AA			0.01 µF,50V
C640	VCKYCY1HB152K	AA			1500 pF,50V
C641	VCKYCY1HB152K	AA			1500 pF,50V
C642	VCKYCY1HB102K	AA			1000 pF,50V
C643	VCKYCY1HB102K	AA			1000 pF,50V
C644	VCKYCY1HB102K	AA			1000 pF,50V
C645	VCKYCY1HB102K	AA			1000 pF,50V
C646	VCEAZA1HW106M	AB			10 µF,50V,Electrolytic
C647	VCEAZA1HW106M	AB			10 µF,50V,Electrolytic
C648	VCEAZA1HW226M	AB			22 µF,50V,Electrolytic
C663	VCKYCY1HB104K	AD			0.1 µF,50V
C664	VCKYCY1HB104K	AD			0.1 µF,50V
C665	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C666	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C667	VCKYCY1VB105K	AB			1 µF,35V
C668	VCKYCY1VB105K	AB			1 µF,35V
C669	VCKYCY1VB105K	AB			1 µF,35V
C670	VCEAZA1CW107M	AC			100 µF,16V,Electrolytic
C671	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C681	VCCCCY1HH101J	AA			100 pF(CH),50V
C682	VCCCCY1HH101J	AA			100 pF(CH),50V
C683	VCCCCY1HH101J	AA			100 pF(CH),50V
C684	VCCCCY1HH101J	AA			100 pF(CH),50V
C685	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C686	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C687	VCEAZA1HW106M	AB			10 µF,50V,Electrolytic
C688	VCEAZA1HW106M	AB			10 µF,50V,Electrolytic
C689	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic
C692	VCEAZA1HW105M	AB			1 µF,50V,Electrolytic

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[7] CAPACITORS					
C695	VCKYCY1EF104Z	AA			0.1 µF,25V
C696	VCKYCY1HB102K	AA			1000 pF,50V
C697	VCKYCY1HB102K	AA			1000 pF,50V
C699	VCKYCY1HB102K	AA			1000 pF,50V
C705	VCKYCY1HB103K	AA			1000 pF,50V
C706	VCKYCY1HB102K	AA			1000 pF,50V
C707	VCKYCY1HB102K	AA			1000 pF,50V
C708	VCKYCY1HB271K	AA			270 pF,50V
C710	VCEAZA1HW226M	AB			22 µF,50V,Electrolytic
C711	VCKYCY1EF104Z	AA			0.1 µF,25V
C712	VCCCCY1HH820J	AA			82 pF(CH),50V
C724	VCEAZA1HW474M	AB			0.47 µF,50V,Electrolytic
C725	VCKYCY1HB271K	AA			270 pF,50V
C765	RC-EZD105AF1H	AB			1 µF,50V,Electrolytic
C766	VCKYCY1HB271K	AA			270 pF,50V
C767	VCKYCY1HB271K	AA			270 pF,50V
C768	RC-EZD105AF1H	AB			1 µF,50V,Electrolytic
C769	VCKYCY1HB102K	AA			1000 pF,50V
C770	VCKYCY1HB102K	AA			1000 pF,50V
C771	RC-EZD476AF1C	AC			47 µF,16V,Electrolytic
C772	VCKYCY1EF223Z	AB			0.022 µF,25V
C773	VCCCCY1HH151J	AA			150 pF(CH),50V
C774	VCKYCY1HB222K	AA			2200 pF,50V
C775	VCKYCY1HB222K	AA			2200 pF,50V
C776	VCKYCY1CB105K	AB			1 µF,16V
C777	RC-EZD225AF1H	AB			2.2 µF,50V,Electrolytic
C778	VCCCCY1HH101J	AA			100 pF(CH),50V
C781	VCCCCY1HH101J	AA			100 pF(CH),50V
C801	VCEAZA1VW107M	AC			100 µF,35V,Electrolytic
C802	VCEAZA1HW476M	AB			47 µF,50V,Electrolytic
C803	VCEAZA1HW476M	AB			47 µF,50V,Electrolytic
C804	VCEAZA1JW227M	AD			220 µF,63V,Electrolytic
C805	VCEAZA2AW226M	AC			22 µF,100V,Electrolytic
C806	VCFYFA1HA104J	AC			0.1 µF,50V,Thin film
C807	VCFYFA1HA104J	AC			0.1 µF,50V,Thin film
C808	VCFYFA1HA224J	AC			0.22 µF,50V,Thin Film
C809	VCFYFA1HA224J	AC			0.22 µF,50V,Thin Film
C810	VCFYFA1HA104J	AC			0.1 µF,50V,Thin film
C811	VCFYFA1HA104J	AC			0.1 µF,50V,Thin film
C812	VCFYFA1HA105J	AE			1 µF,50V,Thin film
C814	VCFYFA1HA104J	AC			0.1 µF,50V,Thin film
C820	VCEAZV1EW228M	AG			2200 µF,25V,Electrolytic
C821	VCEAZA1HW477M	AD			470 µF,50V,Electrolytic
C822	VCEAZA1HW477M	AD			470 µF,50V,Electrolytic
C841	VCEAZA1CW108M	AE			1000 µF,16V,Electrolytic
C842	VCEAZA1VW477M	AD			470 µF,35V,Electrolytic
C843	VCFYFA1HA473J	AB			0.047 µF,50V,Thin Film
⚠ C844	RC-KZ002LAWZZ	AC			0.047 µF,250V, Ceramic
C851	VCEAZA1EW227M	AC			220 µF,25V,Electrolytic
C852	VCEAZA1HW106M	AB			10 µF,50V,Electrolytic
C853	VCEAZW1EW688M	AL			6800µF,25V,Electrolytic
C854	VCEAZA1HW226M	AB			22 µF,50V,Electrolytic
C855	VCEAZA1HW226M	AB			22 µF,50V,Electrolytic
C856	VCEAZA1HW226M	AB			22 µF,50V,Electrolytic
C857	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C858	VCKYCY1CB105K	AB			1 µF,16V
C859	VCCCCY1HH101J	AA			100pF(CH),50V
C860	VCEAZA1HW225M	AB			2.2 µF,50V,Electrolytic
C861	VCFYFA1HA104J	AC			0.1 µF,50V,Thin film
C862	VCFYFA1HA104J	AC			0.1 µF,50V,Thin film
C863	VCFYFA1HA104J	AC			0.1 µF,50V,Thin film
C864	VCEAZA1EW476M	AB			47 µF,25V,Electrolytic
C865	VCKYCY1EF104Z	AA			0.1 µF,25V
C866	VCFYFA1HA104J	AC			0.1 µF,50V,Thin film
C867	VCFYFA1HA104J	AC			0.1 µF,50V,Thin film
C868	VCKYCY1EF104Z	AA			0.1 µF,25V
C870	VCFYFA1HA104J	AC			0.1 µF,50V,Thin film
C875	VCKYCY1EF104Z	AA			0.1 µF,25V
C903	VCEAZA2AW226M	AC			22 µF,100V,Electrolytic
C904	VCEAZA2AW226M	AC			22 µF,100V,Electrolytic
C905	VCEAZA2AW226M	AC			22 µF,100V,Electrolytic
C907	VCEAZA1VW477M	AD			470 µF,35V,Electrolytic
C908	VCKYPA1HB271K	AA			270 pF,50V
C909	VCEAZA1VW477M	AD			470 µF,35V,Electrolytic
C910	VCKYPA1HB271K	AA			270 pF,50V
C911	VCEAZW1VW478M	AL			4700 µF,35V,Electrolytic
C912	VCEAZW1VW478M	AL			4700 µF,35V,Electrolytic
C914	VCEAZA1HW477M	AD			470 µF,50V,Electrolytic
C915	VCEAZA1HW477M	AD			470 µF,50V,Electrolytic
C916	VCKYPA1HB103K	AA			0.01 µF,50V
C917	VCKYPA1HB103K	AA			0.01 µF,50V
C918	VCFYFA1HA224J	AC			0.22 µF,50V,Thin Film
C919	VCFYFA1HA224J	AC			0.22 µF,50V,Thin Film
C921	VCKYCY1HB102K	AA			1000 pF,50V
C922	VCKYTV1HB474K	AC			0.47 µF,50V
C924	VCKYTV1HB474K	AC			0.47 µF,50V
C925	VCKYCY1HB221K	AA			220 pF,50V
C928	VCCCCY1HH100D	AA			10 pF(CH),50V
C929	VCKYTV1HB104K	AB			0.1 µF,50V

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[7] CAPACITORS					
C930	VCKYTV1HB104K	AB			0.1 µF,50V
C931	VCKYCY1HB104K	AD			0.1 µF,50V
C932	VCKYCY1HB153K	AA			0.015 µF,50V
C933	VCKYTV1HB474K	AC			0.47 µF,50V
C934	VCKYCY1HB104K	AD			0.1 µF,50V
C935	VCKYCY1HB153K	AA			0.015 µF,50V
C936	VCKYTV1HB104K	AB			0.1 µF,50V
C937	VCKYTV1HB104K	AB			0.1 µF,50V
C938	VCKYTV1HB224K	AC			0.22 µF,50V
C939	VCKYTV1HB224K	AC			0.22 µF,50V
C940	VCKYTV1HB474K	AC			0.47 µF,50V
C941	VCKYCY1HB221K	AA			220 pF,50V
C942	VCKYTV1HB474K	AC			0.47 µF,50V
C944	VCKYCY1HB102K	AA			1000 pF,50V
C945	VCEAZA1HW335M	AB			3.3 µF,50V,Electrolytic
C946	VCKYCY1VB105K	AB			1 µF,35V
C947	VCKYCY1HB104K	AD			0.1 µF,50V
C948	VCKYCY1HB104K	AD			0.1 µF,50V
C949	VCKYCY1EF104Z	AA			0.1 µF,25V
C950	VCKYCY1EF104Z	AA			0.1 µF,25V
C953	VCKYCY1HB153K	AA			0.015 µF,50V
C954	VCKYCY1HB153K	AA			0.015 µF,50V
C956	VCFYFA1HA474J	AC			0.47 µF,50V,Thin film
C957	VCFYFA1HA474J	AC			0.47 µF,50V,Thin film
C958	VCEAZA2AW476M	AD			47 µF,100V,Electrolytic
C962	VCKYCY1EF104Z	AA			0.1 µF,25V
C963	VCKYCY1HB104K	AD			0.1 µF,50V
C966	VCEAZA1HW106M	AB			10 µF,50V,Electrolytic
C967	VCEAZA1HW476M	AB			47 µF,50V,Electrolytic
C968	VCKYCY1HB221K	AA			220 pF,50V
C969	VCKYCY1HB221K	AA			220 pF,50V
C970	VCKYCY1HB221K	AA			220 pF,50V
C971	VCKYCY1HB221K	AA			220 pF,50V
C972	VCKYCY1HB102K	AA			1000 pF,50V
C973	VCCCCY1HH330J	AA			33pF(CH),50V
C974	VCKYCY1HB471K	AA			470 pF,50V
C975	VCCCCY1HH470J	AA			47 pF(CH),50V
C976	VCCCCY1HH470J	AA			47 pF(CH),50V
C977	VCCCCY1HH470J	AA			47 pF(CH),50V
C978	VCKYCY1HB104K	AD			0.1 µF,50V
C980	VCFYFA1HA103J	AK			0.01 µF,50V,Thin film
C981	VCFYFA1HA103J	AK			0.01 µF,50V,Thin film
C984	VCKYCY1HB473K	AB			0.047 µF,50V
C985	VCKYCY1HB473K	AB			0.047 µF,50V
C986	VCEAZA1VW477M	AD			470 µF,35V,Electrolytic
C987	VCEAZA1VW477M	AD			470 µF,35V,Electrolytic
C988	VCKYCY1EF104Z	AA			0.1 µF,25V
C989	VCKYCY1EF104Z	AA			0.1 µF,25V
C992	VCKYPA1HB101K	AA			100 pF,50V
C993	VCKYCY1HB104K	AD			0.1 µF,50V
E1	92L104107M0201				100 µF,10V,Electrolytic
E2	92L104106M0407				10 µF,25V,Electrolytic
E3	92L104107M0406				100 µF,25V,Electrolytic
E4	92L104476M0401	AA			47 µF,25V,Electrolytic
E5	92L104106M0407				10 µF,25V,Electrolytic
E6	92L104106M0407				10 µF,25V,Electrolytic
E7	92L104106M0407				10 µF,25V,Electrolytic
E8	92L104107M0201				100 µF,10V,Electrolytic
E9	92L104476M0401	AA			47 µF,25V,Electrolytic
E10	92L104476M0401	AA			47 µF,25V,Electrolytic
E15	92L104106M0407				10 µF,25V,Electrolytic
E16	92L104106M0407				10 µF,25V,Electrolytic
E17	92L104226M0401				22 µF,25V,Electrolytic
EC1	92L104106M0407				10 µF,25V,Electrolytic
EC2	92L104475M0601				4.7 µF,50V,Electrolytic
EC3	92L104107M0406				100 µF,25V,Electrolytic
EC4	92L104227M0302				220 µF,16V,Electrolytic
EC5	92L104107M0406				100 µF,25V,Electrolytic
EC7	92L104106M0407				10 µF,25V,Electrolytic
EC8	92L104227M0302				220 µF,16V,Electrolytic
EC9	92L104106M0407				10 µF,25V,Electrolytic
EC10	92L104106M0407				10 µF,25V,Electrolytic
EC15	92L104477M0204	AB			470 µF,10V,Electrolytic
EC75	92L104476M0401	AA			47 µF,25V,Electrolytic
F1	92L104228M0201				2200 µF,10V,Electrolytic
JP24	VCKYTV1HB104K	AB			0.1 µF,50V
[8] RESISTORS					
C429	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
C430	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
D107	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
FB401	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
FB402	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
FB651	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
FB652	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
J412	VRS-TV2AB000J	AA			0 ohms,Jumper,1.25x2mm,Green

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[8] RESISTORS					
JP1	VRS-TV2AB000J	AA			0 ohms,Jumper,1.25x2mm,Green
JP2	VRS-TV2AB000J	AA			0 ohms,Jumper,1.25x2mm,Green
JP3	VRS-TQ2BB000J	AA			0 ohms,Jumper,1.55x3.1mm,Green
JP4	VRS-TV2AB000J	AA			0 ohms,Jumper,1.25x2mm,Green
JP5	VRS-TV2AB000J	AA			0 ohms,Jumper,1.25x2mm,Green
JP6	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP7	VRS-TV2AB000J	AA			0 ohms,Jumper,1.25x2mm,Green
JP9	VRS-TQ2BB000J	AA			0 ohms,Jumper,1.55x3.1mm,Green
JP10	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP12	VRS-TQ2BB000J	AA			0 ohms,Jumper,1.55x3.1mm,Green
JP15	VRS-TV2AB000J	AA			0 ohms,Jumper,1.25x2mm,Green
JP17	VRS-TQ2BB000J	AA			0 ohms,Jumper,1.55x3.1mm,Green
JP19	VRS-TQ2BB000J	AA			0 ohms,Jumper,1.55x3.1mm,Green
JP22	VRS-TQ2BB000J	AA			0 ohms,Jumper,1.55x3.1mm,Green
JP25	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP26	VRS-TQ2BB000J	AA			0 ohms,Jumper,1.55x3.1mm,Green
JP101	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP102	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP104	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP402	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP403	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP404	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
L14	92L10100000J021	AA			0 ohms,1/10W
L15	92L10100000J021	AA			0 ohms,1/10W
L16	92L10100000J021	AA			0 ohms,1/10W
L17	92L10100000J021	AA			0 ohms,1/10W
L101	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
L401	VRS-TV2AB000J	AA			0 ohms,Jumper,1.25x2mm,Green
R1	92L10110020J021	AA			10 kohms,1/10W
R2	92L10110020J021	AA			10 kohms,1/10W
R3	92L10110020J021	AA			10 kohms,1/10W
R5	92L10133020J021	AA			33 kohms,1/10W
R6	92L10133R0J021	AA			33 ohms,1/10W
R7	92L10133R0J021	AA			33 ohms,1/10W
R8	92L10100000J021	AA			0 ohms,1/10W
R9	92L10100000J021	AA			0 ohms,1/10W
R10	92L10110040J021	AA			1 Mohms,1/10W
R11	92L10147020J021	AA			47 kohms,1/10W
R12	92L10133010J021	AA			3.3 kohms,1/10W
R13	92L10112010J021				1.2 kohms,1/10W
R14	92L10110020J021	AA			10 kohms,1/10W
R15	92L10182010J021				8.2 kohms,1/10W
R17	92L10110030J021	AA			100 kohms,1/10W
R18	92L10110020J021	AA			10 kohms,1/10W
R19	92L10110000J021	AA			100 ohms,1/10W
R20	92L10156010J021	AA			5.6 kohms,1/10W
R22	92L10127010J021				2.7 kohms,1/10W
R23	92L10168010J021				6.8 kohms,1/10W
R24	92L10182010J021				8.2 kohms,1/10W
R25	92L10147010J021	AA			4.7 kohms,1/10W
R26	92L10100000J021	AA			0 ohms,1/10W
R27	92L10110010J021	AA			1 kohms,1/10W
R28	92L10182010J021				8.2 kohms,1/10W
R29	92L10110000J021	AA			100 ohms,1/10W
R30	92L10110020J021	AA			10 kohms,1/10W
R31	92L10115000J021				150 ohms,1/10W
R32	92L10110010J021	AA			1 kohms,1/10W
R34	92L10110000J021	AA			100 ohms,1/10W
R36	92L10110010J021	AA			1 kohms,1/10W
R37	92L10110020J021	AA			10 kohms,1/10W
R38	92L10110000J021	AA			100 ohms,1/10W
R39	92L10182010J021				8.2 kohms,1/10W
R40	92L10110000J021	AA			100 ohms,1/10W
R41	92L10100000J021	AA			0 ohms,1/10W
R42	92L10182010J021				8.2 kohms,1/10W
R43	92L10147010J021	AA			4.7 kohms,1/10W
R44	92L10156010J021	AA			5.6 kohms,1/10W
R46	92L10127010J021				2.7 kohms,1/10W
R47	92L10168010J021				6.8 kohms,1/10W
R48	92L10110010J021	AA			1 kohms,1/10W
R50	92L10139010J021	AA			3.9 kohms,1/10W
R51	92L10139010J021	AA			3.9 kohms,1/10W
R52	92L10112010J021				1.2 kohms,1/10W
R61	92L10110020J021	AA			10 kohms,1/10W
R63	92L10110020J021	AA			10 kohms,1/10W
R65	92L10133010J021	AA			3.3 kohms,1/10W
R67	92L10133010J021	AA			3.3 kohms,1/10W
R68	92L10110020J021	AA			10 kohms,1/10W
R69	92L10122R0J021				22 ohms,1/10W
R71	92L10122R0J021				22 ohms,1/10W
R73	92L10122R0J021				22 ohms,1/10W
R74	92L10110R0J021	AA			10 ohms,1/10W
R75	92L10110010J021	AA			1 kohms,1/10W
R76	92L10122010J021				2.2 kohms,1/10W
R78	92L10110020J021	AA			10 kohms,1/10W
R79	92L10110020J021	AA			10 kohms,1/10W
R80	92L10110020J021	AA			10 kohms,1/10W
R81	92L10133R0J021	AA			33 ohms,1/10W
R82	92L10110030J021	AA			100 kohms,1/10W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] RESISTORS					
R84	92L1013302J021	AA			33 kohms,1/10W
R86	92L1013302J021	AA			33 kohms,1/10W
R87	92L10115R0J021	AA			15 ohms,1/10W
R88	92L1011002J021	AA			10 kohms,1/10W
R89	92L1011002J021	AA			10 kohms,1/10W
R90	92L1011002J021	AA			10 kohms,1/10W
R91	92L1010000J021	AA			0 ohms,1/10W
R92	92L1011003J021	AA			100 kohms,1/10W
R93	92L1011003J021	AA			100 kohms,1/10W
R94	92L1011003J021	AA			100 kohms,1/10W
R95	92L1010000J021	AA			0 ohms,1/10W
R96	92L1011002J021	AA			10 kohms,1/10W
R97	92L1013902J021	AA			39 kohms,1/10W
R98	92L1010000J021	AA			0 ohms,1/10W
R99	92L1013901J021	AA			3.9 kohms,1/10W
R100	92L1011001J021	AA			1 kohms,1/10W
R101	92L1011802J021	AA			18 kohms,1/10W
R102	92L1014702J021	AA			47 kohms,1/10W
R103	92L1011002J021	AA			10 kohms,1/10W
R104	92L1012002J021	AA			20 kohms,1/10W
R105	92L1011002J021	AA			10 kohms,1/10W
R106	92L1012202J021	AA			22 kohms,1/10W
R107	92L1011501J021				1.5 kohms,1/10W [Use in Servo PWB-B]
R107	VRS-CY1JB101J	AA			100 ohms,1/16W [Use in iPOD PWB-C]
R108	92L1012202J021	AA			22 kohms,1/10W
R109	92L1011202J021	AA			12 kohms,1/10W
R110	92L1011002J021	AA			10 kohms,1/10W [Use in Servo PWB-B]
R110	VRSCY1JB5493F	AA			549 kohms,1/16W [Use in iPOD PWB-C]
R111	92L1012202J021	AA			22 kohms,1/10W
R112	92L1013902J021	AA			39 kohms,1/10W
R113	92L1011501J021				1.5 kohms,1/10W [Use in Servo PWB-B]
R113	VRS-CY1JB101J	AA			100 ohms,1/16W [Use in iPOD PWB-C]
R114	92L1012702J021				27 kohms,1/10W
R115	92L1013902J021	AA			39 kohms,1/10W [Use in Servo PWB-B]
R115	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green [Use in iPOD PWB-C]
R116	92L1012002J021	AA			20 kohms,1/10W
R117	92L1010000J021	AA			0 ohms,1/10W
R118	92L1011002J021	AA			10 kohms,1/10W [Use in Servo PWB-B]
R118	VRS-CY1JB102J	AA			1 kohms,1/16W [Use in iPOD PWB-C]
R119	92L1010000J021	AA			0 ohms,1/10W [Use in Servo PWB-B]
R119	VRS-CY1JB102J	AA			1 kohms,1/16W [Use in iPOD PWB-C]
R120	92L1013902J021	AA			39 kohms,1/10W [Use in Servo PWB-B]
R120	VRS-CY1JB104J	AA			100 kohms,1/16W [Use in iPOD PWB-C]
R121	92L1010000J021	AA			0 ohms,1/10W [Use in Servo PWB-B]
R121	VRS-CY1JB104J	AA			100 kohms,1/16W [Use in iPOD PWB-C]
R122	92L1011002J021	AA			10 kohms,1/10W [Use in Servo PWB-B]
R122	VRS-CY1JB104D	AA			100 kohms,1/16W [Use in iPOD PWB-C]
R123	92L1010000J021	AA			0 ohms,1/10W [Use in Servo PWB-B]
R123	VRS-CY1JB104D	AA			100 kohms,1/16W [Use in iPOD PWB-C]
R124	92L1010000J021	AA			0 ohms,1/10W
R125	92L1011002J021	AA			10 kohms,1/10W
R126	92L1011002J021	AA			10 kohms,1/10W
R127	92L1011002J021	AA			10 kohms,1/10W
R128	92L1011002J021	AA			10 kohms,1/10W [Use in Servo PWB-B]
R128	VRS-CY1JB104D	AA			100 kohms,1/16W [Use in iPOD PWB-C]
R129	VRS-CY1JB104D	AA			100 kohms,1/16W
R130	92L1011001J021	AA			1 kohms,1/10W
R131	92L1011002J021	AA			10 kohms,1/10W [Use in Servo PWB-B]
R131	VRS-CY1JB154D	AA			150 kohms,1/16W [Use in iPOD PWB-C]
R132	92L1010000J021	AA			0 ohms,1/10W [Use in Servo PWB-B]
R132	VRS-CY1JB154D	AA			150 kohms,1/16W [Use in iPOD PWB-C]
R133	92L1011002J021	AA			10 kohms,1/10W [Use in Servo PWB-B]
R133	VRS-CY1JB154D	AA			150 kohms,1/16W [Use in iPOD PWB-C]
R134	VRS-CY1JB154D	AA			150 kohms,1/16W
R135	92L1016800J021	AA			680 ohms,1/10W [Use in Servo PWB-B]
R135	VRS-CY1JB103J	AA			10 kohms,1/16W [Use in iPOD PWB-C]
R136	92L1013002J021	AA			30 kohms,1/10W [Use in Servo PWB-B]
R136	VRS-CY1JB103J	AA			10 kohms,1/16W [Use in iPOD PWB-C]
R137	92L1011001J021	AA			1 kohms,1/10W [Use in Servo PWB-B]
R137	VRS-CY1JB102J	AA			1 kohms,1/16W [Use in iPOD PWB-C]
R138	92L1011002J021	AA			10 kohms,1/10W [Use in Servo PWB-B]
R138	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green [Use in iPOD PWB-C]
R139	92L1011003J021	AA			100 kohms,1/10W [Use in Servo PWB-B]
R139	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green [Use in iPOD PWB-C]
R140	92L1015101J021	AA			5.1 kohms,1/10W [Use in Servo PWB-B]
R140	VRS-CY1JB103J	AA			10 kohms,1/16W [Use in iPOD PWB-C]
R141	92L1013002J021	AA			30 kohms,1/10W
R142	92L1011002J021	AA			10 kohms,1/10W
R144	92L1011000J021	AA			100 ohms,1/10W
R148	92L1011003J021	AA			100 kohms,1/10W
R149	92L10133R0J021	AA			33 ohms,1/10W
R150	92L10133R0J021	AA			33 ohms,1/10W
R151	92L1011002J021	AA			10 kohms,1/10W
R152	92L1010000J021	AA			0 ohms,1/10W
R154	92L1011002J021	AA			10 kohms,1/10W
R155	92L1015101J021	AA			5.1 kohms,1/10W
R157	92L10133R0J021	AA			33 ohms,1/10W
R158	92L10133R0J021	AA			33 ohms,1/10W
R159	92L1011002J021	AA			10 kohms,1/10W

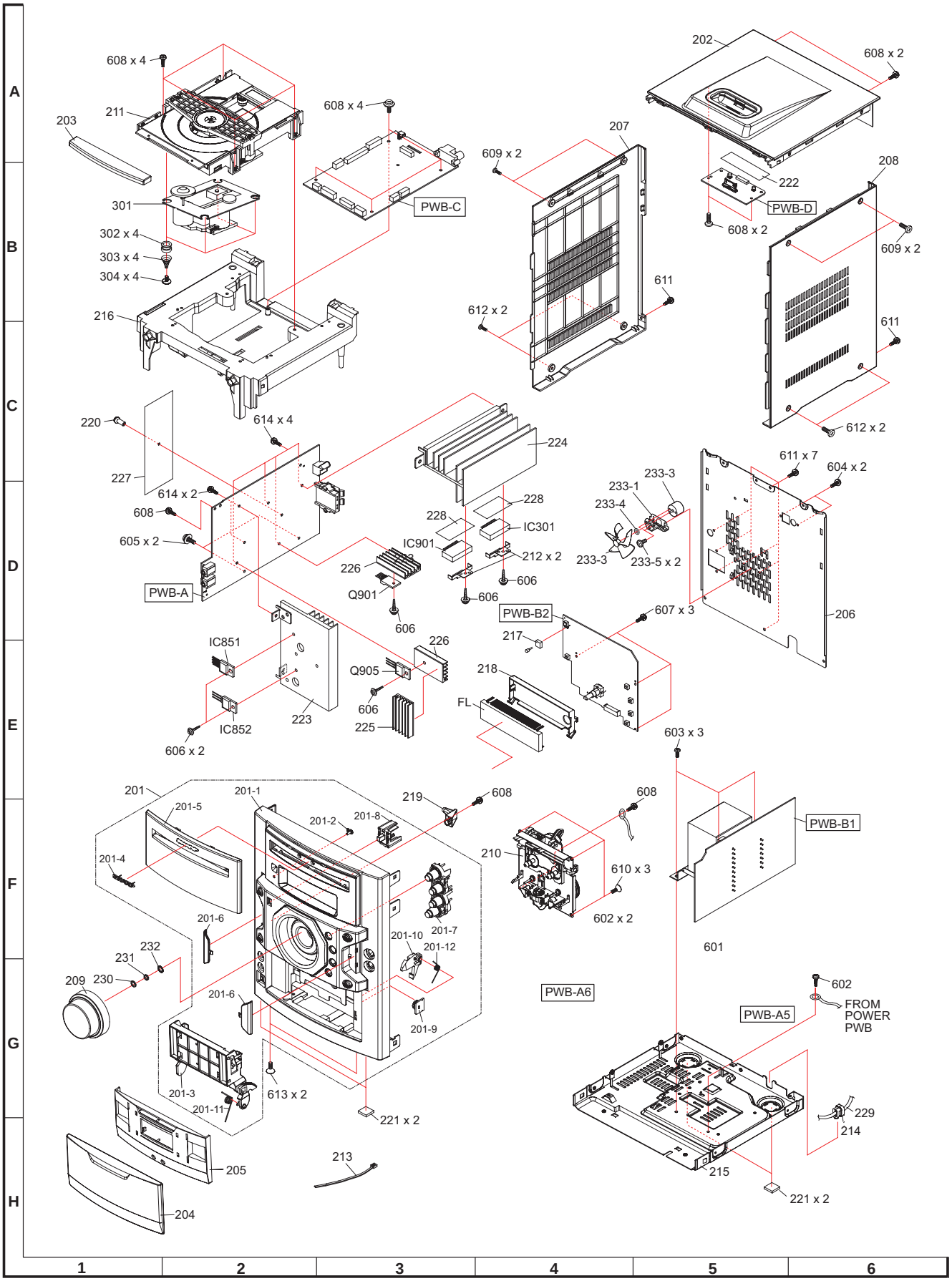
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] RESISTORS					
R161	92L10133R0J021	AA			33 ohms,1/10W
R162	92L10133R0J021	AA			33 ohms,1/10W
R166	92L1011003J021	AA			100 kohms,1/10W
R167	92L1011002J021	AA			10 kohms,1/10W
R168	92L1013301J021	AA			3.3 kohms,1/10W
R169	92L1013301J021	AA			3.3 kohms,1/10W
R173	92L1011002J021	AA			10 kohms,1/10W
R174	92L1011002J021	AA			10 kohms,1/10W
R175	92L1011002J021	AA			10 kohms,1/10W
R177	92L1011002J021	AA			10 kohms,1/10W
R183	92L1013301J021	AA			3.3 kohms,1/10W
R184	92L1011002J021	AA			10 kohms,1/10W
R185	92L1011002J021	AA			10 kohms,1/10W
R186	92L1013301J021	AA			3.3 kohms,1/10W
R189	92L10133R0J021	AA			33 ohms,1/10W
R311	VRS-TV2AB100J	AA			10 ohms,1/10W
R312	VRS-CY1JB103J	AA			10 kohms,1/16W
R313	VRS-CY1JB103J	AA			10 kohms,1/16W
R314	VRS-TV2AB100J	AA			10 ohms,1/10W
R321	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R322	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R323	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R324	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R325	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R326	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R333	VRS-CY1JB563J	AA			56 kohms,1/16W
R334	VRS-CY1JB152J	AA			1.5 kohms,1/16W
R335	VRS-CY1JB152J	AA			1.5 kohms,1/16W
R336	VRD-ST2CD103J	AA			10 kohms,1/6W
R337	VRS-CY1JB103J	AA			10 kohms,1/16W
R343	VRS-VV3AA220J	AB			22 ohms,1W
R344	VRS-VV3AA220J	AB			22 ohms,1W
R360	VRS-CY1JB152J	AA			1.5 kohms,1/16W
R361	VRS-CY1JB333J	AA			33 kohms,1/16W
R362	VRS-TV2AB100J	AA			10 ohms,1/10W
R363	VRS-TV2AB100J	AA			10 ohms,1/10W
R407	VRS-CY1JB473J	AA			47 kohms,1/16W
R408	VRS-CY1JB473J	AA			47 kohms,1/16W
R409	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R410	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R413	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R414	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R415	VRS-CY1JB330J	AA			33 ohms,1/16W
R416	VRS-CY1JB330J	AA			33 ohms,1/16W
R417	VRS-CY1JB104J	AA			100 kohms,1/16W
R418	VRS-CY1JB104J	AA			100 kohms,1/16W
R419	VRS-CY1JB392J	AA			3.9 kohms,1/16W
R420	VRS-CY1JB392J	AA			3.9 kohms,1/16W
R421	VRS-CY1JB333J	AA			33 kohms,1/16W
R422	VRS-CY1JB333J	AA			33 kohms,1/16W
R423	VRS-CY1JB102J	AA			1 kohms,1/16W
R424	VRS-CY1JB102J	AA			1 kohms,1/16W
R450	VRS-CY1JB683J	AA			68 kohms,1/16W
R451	VRS-CY1JB102J	AA			1 kohms,1/16W
R452	VRS-CY1JB102J	AA			1 kohms,1/16W
R453	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R454	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R458	VRD-ST2EE221J	AA			220 ohms,1/4W
R460	VRS-CY1JB101J	AA			100 ohms,1/16W
R461	VRS-CY1JB101J	AA			100 ohms,1/16W
R501	VRD-ST2EE101J	AA			100 ohms,1/4W
R507	VRS-CY1JB103J	AA			10 kohms,1/16W
R508	VRS-CY1JB103J	AA			10 kohms,1/16W
R509	VRS-CY1JB104J	AA			100 kohms,1/16W
R510	VRS-CY1JB102J	AA			1 kohms,1/16W
R511	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R512	VRS-CY1JB104J	AA			100 kohms,1/16W
R513	VRS-CY1JB103J	AA			10 kohms,1/16W
R514	VRS-CY1JB470J	AA			47 ohms,1/16W
R516	VRS-CY1JB104J	AA			100 kohms,1/16W
R517	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R519	VRS-CY1JB473J	AA			47 kohms,1/16W
R523	VRS-CY1JB104J	AA			100 kohms,1/16W
R524	VRS-CY1JB101J	AA			100 ohms,1/16W
R527	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R528	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R530	VRS-CY1JB183J	AA			18 kohms,1/16W
R531	VRS-CY1JB104J	AA			100 kohms,1/16W
R534	VRD-ST2CD102J	AA			1 kohms,1/6W
R535	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R537	VRS-CY1JB123J	AA			12 kohms,1/16W
R538	VRS-CY1JB183J	AA			18 kohms,1/16W
R539	VRS-CY1JB183J	AA			18 kohms,1/16W
R542	VRS-CY1JB102J	AA			1 kohms,1/16W
R543	VRS-CY1JB471J	AA			470 ohms,1/16W
R544	VRS-CY1JB103J	AA			10 kohms,1/16W
R545	VRS-CY1JB220J	AA			22 ohms,1/16W
R550	VRD-ST2CD181J	AA			180 ohms,1/6W
R553	VRD-ST2CD393J	AA			39 kohms,1/6W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] RESISTORS					
R554	VRD-ST2CD393J	AA			39 kohms,1/6W
R555	VRS-CY1JB102J	AA			1 kohms,1/16W
R556	VRS-CY1JB473J	AA			47 kohms,1/16W
R601	VRS-CY1JB152J	AA			1.5 kohms,1/16W
R602	VRS-CY1JB152J	AA			1.5 kohms,1/16W
R603	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R604	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R605	VRS-CY1JB333J	AA			33 kohms,1/16W
R606	VRS-CY1JB333J	AA			33 kohms,1/16W
R620	VRS-CY1JB223J	AA			22 kohms,1/16W
R626	VRS-CY1JB474J	AA			470 kohms,1/16W
R631	VRS-CY1JB103J	AA			10 kohms,1/16W
R632	VRS-CY1JB103J	AA			10 kohms,1/16W
R633	VRS-CY1JB332J	AA			3.3kohms,1/16W
R634	VRS-CY1JB332J	AA			3.3kohms,1/16W
R635	VRS-CY1JB104J	AA			100 kohms,1/16W
R636	VRS-CY1JB104J	AA			100 kohms,1/16W
R638	VRS-CY1JB103J	AA			10 kohms,1/16W
R639	VRS-CY1JB103J	AA			10 kohms,1/16W
R640	VRD-ST2CD472J	AA			4.7 kohms,1/6W
R641	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R642	VRD-ST2CD332J	AA			3.3 kohms,1/6W
R643	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R644	VRS-CY1JB153J	AA			15 kohms,1/16W
R645	VRS-CY1JB153J	AA			15 kohms,1/16W
R646	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R647	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R648	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R649	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R650	VRD-ST2CD392J	AA			3.9 kohms,1/6W
R651	VRS-CY1JB392J	AA			3.9 kohms,1/16W
R652	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R653	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R654	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R655	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R656	VRS-CY1JB102J	AA			1 kohms,1/16W
R657	VRS-CY1JB104J	AA			100 kohms,1/16W
R658	VRS-CY1JB104J	AA			100 kohms,1/16W
R659	VRS-CY1JB683J	AA			68 kohms,1/16W
R660	VRS-CY1JB683J	AA			68 kohms,1/16W
R705	VRS-CY1JB102J	AA			1 kohms,1/16W
R706	VRS-CY1JB102J	AA			1 kohms,1/16W
R707	VRS-CY1JB102J	AA			1 kohms,1/16W
R708	VRS-CY1JB102J	AA			1 kohms,1/16W
R712	VRS-CY1JB223J	AA			22 kohms,1/16W
R752	VRD-ST2EE181J	AA			180 ohms,1/4W
R765	VRD-ST2EE1R5J	AA			1.5 ohms,1/4W
R766	VRD-ST2EE1R5J	AA			1.5 ohms,1/4W
R767	VRS-CY1JB272J	AA			2.7 kohms,1/16W
R768	VRS-CY1JB272J	AA			2.7 kohms,1/16W
R769	VRS-CY1JB101J	AA			100 ohms,1/16W
R770	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R771	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R772	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R773	VRS-CY1JB681J	AA			680 ohms,1/16W
R774	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R801	VRD-ST2CD563J	AA			56 kohms,1/6W
R802	VRD-ST2CD333J	AA			33 kohms,1/6W
R803	VRD-ST2CD123J	AA			12 kohms,1/6W
R804	VRD-ST2EE470J	AA			47 ohms,1/4W
R805	VRD-ST2EE470J	AA			47 ohms,1/4W
R806	VRD-ST2CD473J	AA			47 kohms,1/6W
R808	VRD-RT2HD222J	AA			2.2 kohms,1/2W
R841	VRD-ST2CD224J	AA			220 kohms,1/6W
R842	VRD-ST2CD102J	AA			1 kohms,1/6W
R843	VRD-ST2CD473J	AA			47 kohms,1/6W
R844	VRD-ST2EE820J	AA			82 ohms,1/4W
R845	RR-HZ0001AWZZ	AE			4.7 Mohms,1/2W
R851	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R854	VRD-RT2HDR56J	AA			0.56 ohms,1/2W
R855	VRD-ST2CD103J	AA			10 kohms,1/6W
R856	VRS-TV2AB223J	AA			22 kohms,1/10W
R857	VRD-ST2CD331J	AA			330 ohms,1/6W
R858	VRD-ST2CD100J	AA			10 ohms,1/6W
R891	VRD-RT2HD271J	AA			270 ohms,1/2W
R892	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R901	VRD-ST2CD102J	AA			1 kohms,1/6W
R902	VRS-CY1JB103J	AA			10 kohms,1/16W
R903	VRD-ST2EE2R2J	AA			2.2 ohms,1/4W
R904	VRS-VV3AA103J	AA			10 kohms,1W
R905	VRD-ST2CD222J	AA			2.2 kohms,1/6W
R906	VRD-ST2CD103J	AA			10 kohms,1/6W
R907	VRD-ST2CD102J	AA			1 kohms,1/6W
R908	VRD-ST2CD470J	AA			47 ohms,1/6W
R909	VRD-ST2CD561J	AA			560 ohms,1/6W
R910	VRD-ST2CD223J	AA			22 kohms,1/6W
R911	VRS-TV2AB100J	AA			10 ohms,1/10W
R912	VRS-CY1JB103J	AA			10 kohms,1/16W
R913	VRS-CY1JB103J	AA			10 kohms,1/16W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] RESISTORS					
R914	VRS-TV2AB100J	AA			10 ohms,1/10W
R920	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R921	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R922	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R923	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R924	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R925	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R926	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R931	VRS-CY1JB103J	AA			10 kohms,1/16W
R932	VRS-CY1JB103J	AA			10 kohms,1/16W
R933	VRS-CY1JB563J	AA			56 kohms,1/16W
R934	VRS-CY1JB152J	AA			1.5 kohms,1/16W
R935	VRS-CY1JB152J	AA			1.5 kohms,1/16W
R936	VRD-ST2CD103J	AA			10 kohms,1/6W
R937	VRS-CY1JB103J	AA			10 kohms,1/16W
R943	VRS-VV3AA220J	AB			22 ohms,1W
R944	VRS-VV3AA220J	AB			22 ohms,1W
R950	VRS-CY1JB333J	AA			33 kohms,1/16W
R951	VRS-CY1JB103J	AA			10 kohms,1/16W
R952	VRS-CY1JB103J	AA			10 kohms,1/16W
R954	VRS-CY1JB103J	AA			10 kohms,1/16W
R955	VRS-CY1JB103J	AA			10 kohms,1/16W
R956	VRS-CY1JB333J	AA			33 kohms,1/16W
R958	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R960	VRS-CY1JB152J	AA			1.5 kohms,1/16W
R961	VRD-ST2CD333J	AA			33 kohms,1/6W
R962	VRS-TV2AB100J	AA			10 ohms,1/10W
R963	VRS-TV2AB100J	AA			10 ohms,1/10W
R970	VRS-CY1JB102J	AA			1 kohms,1/16W
R971	VRS-CY1JB103J	AA			10 kohms,1/16W
R972	VRS-CY1JB104J	AA			100 kohms,1/16W
R973	VRS-CY1JB104J	AA			100 kohms,1/16W
R974	VRS-CY1JB104J	AA			100 kohms,1/16W
R975	VRS-CY1JB103J	AA			10 kohms,1/16W
R976	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R977	VRS-CY1JB105J	AA			1 Mohms,1/6W
R978	VRD-ST2CD101J	AA			100 ohms,1/6W
[9] OTHER CIRCUITRY PARTS					
Bi404	QCNWNB340AWPZ				Connector Ass'y,5 / 9 Pin [with CNS404]
Bi602	QCNWNB315AWPZ	AH			Connector Ass'y,5 / 4 Pin [with CNS602]
Bi603	QCNWNB329AWPZ				Connector Ass'y,7 / 6 Pin [with CNS606]
Bi902	QCNWNB338AWPZ				Connector Ass'y 13 / 12 Pin [with CNS801]
CNP101	QCNCWA046AW30	AQ			Connector,30 Pin
CNP102	QCNCWXC16AFZZ	AF			Connector,16 Pin
CNP102A	QCNCWYH16AWZZ	AD			Connector,16 Pin
CNP300	QCNCM704BAFZZ	AA			Connector, 2 Pin
CNP301	QCNCM704BAFZZ	AA			Connector, 2 Pin
CNP302	QCNCM704BAFZZ	AA			Connector, 2 Pin
CNP401	92L1200TJH39A1				Connector, 9 Pin
CNP402	QCNCM704CAFZZ	AB			Connector, 3 Pin
CNP402A	92L1200TJH37B1				Connector, 7 Pin
CNP404	92L1200TJH36A1	AA			Connector, 6 Pin
CNP405	92L1200016PiN1	AC			Connector, 16 Pin
CNP406	92L1200TJH35A1	AA			Connector, 5 Pin
CNP407	92L1200004PiN4				Connector,4 Pin
CNP502	QCNCM705BAFZZ	AA			Connector, 2 Pin
CNP601	QCNCWZF33AWZZ	AF			Connector,33 Pin
CNP601A	92L1200033PiN1				Connector,33 Pin
CNP602	92L1200TJH34B2				Connector,4 Pin
CNP603A	92L1200TJH36B1				Connector, 6 Pin
CNP701	QCNCWZY18AWZZ	AD			Connector,18 Pin
CNP701A	92L1200018PiN3				Connector,18 Pin
CNP707	QCNCM704BAFZZ	AA			Connector, 2 Pin
CNP801	QCNCM035MAWZZ	AE			Connector, 12 Pin
CNP802	92LCONE7P52147	AC			Connector, 7 Pin
CNP805	QPLGN0269GEZZ	AB			Connector, 2 Pin
CNP901	92LCONE2P53253	AB			Connector, 2 Pin
CNS402A	QCNWNB306AWPZ	AG			Connector Ass'y 3 Pin [with CNS402B]
CNS404	92L12366615101				Connector Ass'y,6 Pin
CNS406	92L12355515101				Connector Ass'y,5 Pin
CNS901	QCNWNB342AWPZ				Connector Ass'y,2 Pin
CON2	92L121AV3AMFM1				Socket, AM / FM
CON3	92L1200TJH34A1	AA			Connector,4 Pin
F801	QFS-D602BSJNi	AD			Fuse,6A 125V
F802	QFS-D602BSJNi	AD			Fuse,6A 125V
F803	QFS-D202BSJNi	AB			Fuse,2A 125V
F804	QFS-D202BSJNi	AB			Fuse,2A 125V
F805	QFS-D502BSJNi	AE			Fuse,5A 125V
F808	QFS-D162BSJNi	AE			Fuse,1.6A 125V
FFC102	QCNWNB313AWPZ	AF			Flat Cable, 16 Pin
FFC405	92L123GGG20101	AC			Flat Cable, 16 Pin
FFC601	QCNWNB337AWPZ				Flat Cable, 33 Pin
FFC701	QCNWNB312AWPZ	AE			Flat Cable, 18 Pin
FH801	QFSHD0001AWZZ	AB			Fuse Holder
FH802	QFSHD0001AWZZ	AB			Fuse Holder
FH803	QFSHD0001AWZZ	AB			Fuse Holder
FH804	QFSHD0001AWZZ	AB			Fuse Holder

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] OTHER CIRCUITRY PARTS					
FH805	QFSHD0001AWZZ	AB			Fuse Holder
FH806	QFSHD0001AWZZ	AB			Fuse Holder
FH807	QFSHD0001AWZZ	AB			Fuse Holder
FH808	QFSHD0001AWZZ	AB			Fuse Holder
FH809	QFSHD0001AWZZ	AB			Fuse Holder
FH810	QFSHD0001AWZZ	AB			Fuse Holder
FH815	QFSHD0001AWZZ	AB			Fuse Holder
FH816	QFSHD0001AWZZ	AB			Fuse Holder
FL701	VVKNA12MM54-1	AU			FL Display
FW702	QCNWNB341AWPZ				Flat Wire, 7 Pin
JK601	QJAKM0004AWZZ	AK			Jack, Audio In
JK602	QJAKM0004AWZZ	AK			Jack, Headphone
JK603	QSOCZA008AWZZ	AF			Jack, USB
JK691	QSOCJ0120AWZZ	AD			Video Out Jack
LUG1	QLUGP0001AWZZ	AC			Lug Terminal
LUG2	QLUGP0001AWZZ	AC			Lug Terminal
LUG5	QCNWN1860AWZZ	AC			Lug Wire
LUG7	QCNWNA673AWPZ	AD			Lug Wire
LUG802	QLUGP0002AWZZ	AB			Lug
LUG803	QCNWNA980AWPZ	AD			Lug Wire
LUG851	QCNWNB368AWPZ				Lug Wire
RL841	RRLYDA002AWZZ	AF			Relay
RX701	VHLK2013TH2E1	AG			Remote Sensor
SO901	QTANAA021AWZZ	AD			Terminal, Speaker
SW701	92LSWiCHT1663T	AC			Switch,Key Type [POWER ON/STAND-BY]
SW702	92LSWiCHT1663T	AC			Switch,Key Type [FUNCTION]
SW703	92LSWiCHT1663T	AC			Switch,Key Type [DISC / USB / TAPE STOP / TUNING DOWN]
SW704	92LSWiCHT1663T	AC			Switch,Key Type [DISC / USB / iPod PLAY or PAUSE / TAPE PLAY / TUNING UP]
SW705	92LSWiCHT1663T	AC			Switch,Key Type [TRAY OPEN/CLOSE]
VR701	QSW-ZA001AWZZ	AE			Switch,Jog Type [VOLUME]
WiRE	QCNWNB367AWPZ				Single Lug Wire
WiRE 1	92L12420015101	AC			Single Wire, 150mm
WiRE B	QCNWNA688AWPZ	AD			Single Wire, White [with H']
WTM702	QCNCW019GAWZZ				Connector, 7 Pin

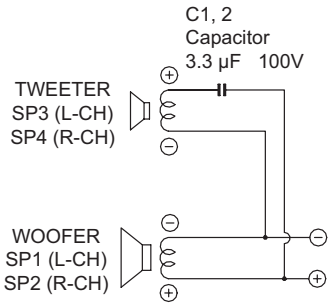
[10] CABINET PARTS / CD MECHANISM PARTS

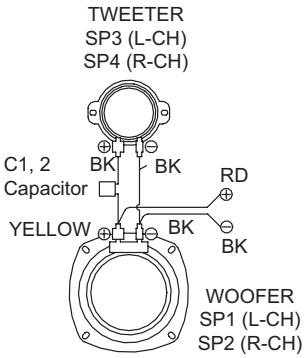


NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[10] CABINET PARTS / CD MECHANISM PARTS					
201	CCABA7792AW01	BA			Front Panel Ass'y
201-1	----------	-			Front Panel (Not Replacement Item)
201-2	GCOVAA118AWSA	AC			Cover, Timer
201-3	GDORFA031AWSA	AF			Holder, Cassette
201-4	HBDGBA007AWSA	AE			Badge, SHARP
201-5	HDECQA534AWSA	AK			Decoration Panel, B
201-6	HDECQA530AWSA	AF			Decoration Panel, A
201-7	JKNBZA276AWSA	AE			Button, Function
201-8	JKNBZA277AWSA	AE			Button, Power
201-9	MLiF-A001AWZZ	AD			Damper
201-10	MLOKC0015AWZZ	AC			Lock, Cassette
201-11	MSPRD0180AWFJ	AB			Spring, Cassette
201-12	MSPRD0197AWFJ	AC			Spring, Cassette Lock
202	GCAB-A078AWSA	AP			Top Cabinet
203	GCOVAA259AWSA	AG			Disc Tray Cover
204	GCOVAA260AWSA	AG			Cover, Cassette Outer
205	GCOVAA261AWSA	AF			Cover, Cassette Inner
206	GiTARA681AWSA	AP			Rear Panel [For U.S.A]
206	GiTARA684AWSA	AP			Rear Panel [For Central & South America]
207	GiTASA235AWSA	AP			Side Panel, Left
208	GiTASA236AWSA	AP			Side Panel, Right
209	JKNBKA044AWSA	AQ			Knob, Volume
210	KMECBA015AW02	BC			Tape Mechanism Ass'y
211	KMECZA018AWZZ				Changer Mechanism Unit
212	LANGKA155AWFJ	AE			Spring Plate
213	LBND-1011AWZZ	AA			Nylon Band
214	LBSHC0005AWZZ	AD			Bushing, AC Power Supply Cord
215	LCHSMA095AWFW	AP			Chassis, Main
216	LCHSZA020AWZZ	AM			Chassis, Changer Unit
217	LHLDZA047AWZZ	AC			Holder, LED
218	LHLDZA199AWZZ	AD			Holder, FL Display
219	LHLDZA243AWSA	AD			Holder, PWB
220	LX-LZ0002AW00	AC			Rivet
221	PCUSGA133AWZZ	AB			Cushion, Leg
222	PFLT-A138AWZZ	AB			Felt
223	PRDARA197AWFW	AL			Heat Sink, IC
224	PRDARA198AWFW	AK			Heat Sink, Amp
225	PRDARA202AWFW	AH			Heat Sink, IC
226	PRDARA203AWFW	AF			Heat Sink, IC
227	PSHEPA125AWZZ	AD			Sheet
228	PSHEZA149AWZZ	AG			Sheet, Heat Transfer
⚠ 229	QACCDA002AWZZ	AN			AC Power Supply Cord
230	92LCSPR1431C	AA			Spring, Ring
231	----------	-			Nut (Not Replacement Item)
232	----------	-			Washer (Not Replacement Item)
233	----------	-			Fan Ass'y (Not Replacement Item)
233-1	LANGK0437AWFW	AE			Bracket, Fan Support A
233-2	NFANP0001AWZZ	AD			Rotary, Fan
233-3	RMOTVA015AWZZ	AH			Motor, Air cooling Fan
233-4	92LCSPR1431C	AA			Spring, Ring
233-5	XBBY720P04000	AA			Screw, M2 X4mm
301	KMECZA019AWZZ				CD Mechanism Unit
302	92L705DA11VZ01				Cushion
303	92L21405R00001				Spring
304	92L22028150001				Screw, Special
601	LX-BZA039AWF7	AA			Screw, Special
602	LX-BZA043AWF7	AA			Screw, Special
603	LX-BZA049AWF7	AB			Screw, Special
604	LX-BZA050AWF7	AA			Screw, Special
605	LX-JZ0010AWF7	AB			Screw, Special
606	LX-JZ0036AWF7	AC			Screw, M3 X12mm
607	XEBY726P08000	AA			Screw, M2.6 X8mm
608	XEBY730P10000	AA			Screw, M3 X10mm
609	XEBY830P10000	AB			Screw, M3 X10mm
610	XESY730P10000	AA			Screw, M3 X10mm
611	XJBY730P10000	AA			Screw, M3 X10mm
612	XJBY830P10000	AA			Screw, M3 X10mm
613	XJSY730P08000	AA			Screw, M3 X8mm
614	XJBY830P08000	AB			Screw, M3 X8mm

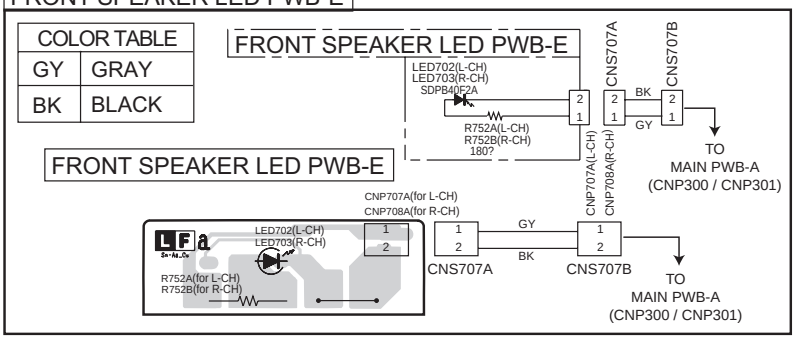
NOTE: FOR CD MECHANISM PARTS, ITEM NO. ARE 3XX

[11] FRONT SPEAKER BOX PARTS





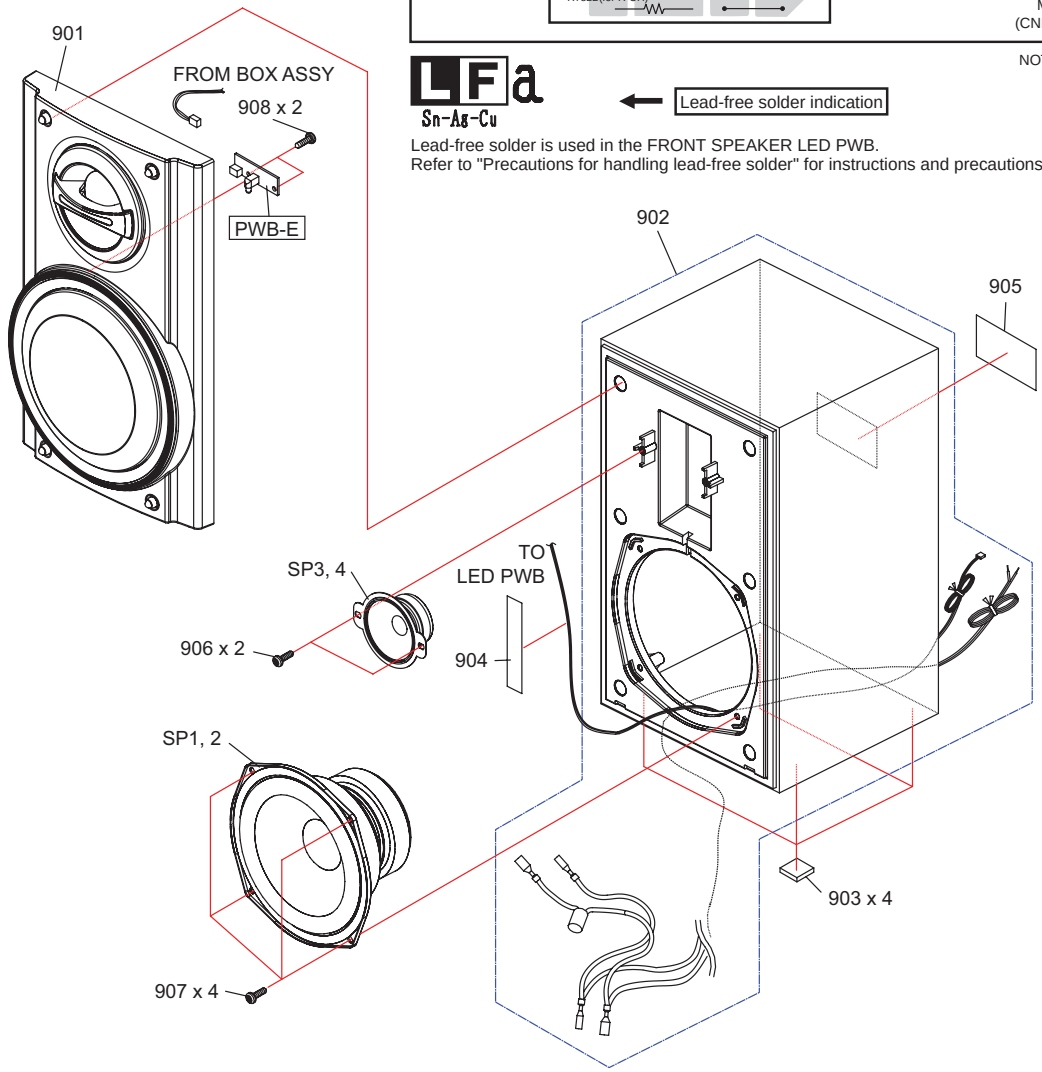
FRONT SPEAKER LED PWB-E



NOTE: CNP300 (for L-CH)
CNP301 (for R-CH)

LFa Sn-Ag-Cu ← Lead-free solder indication

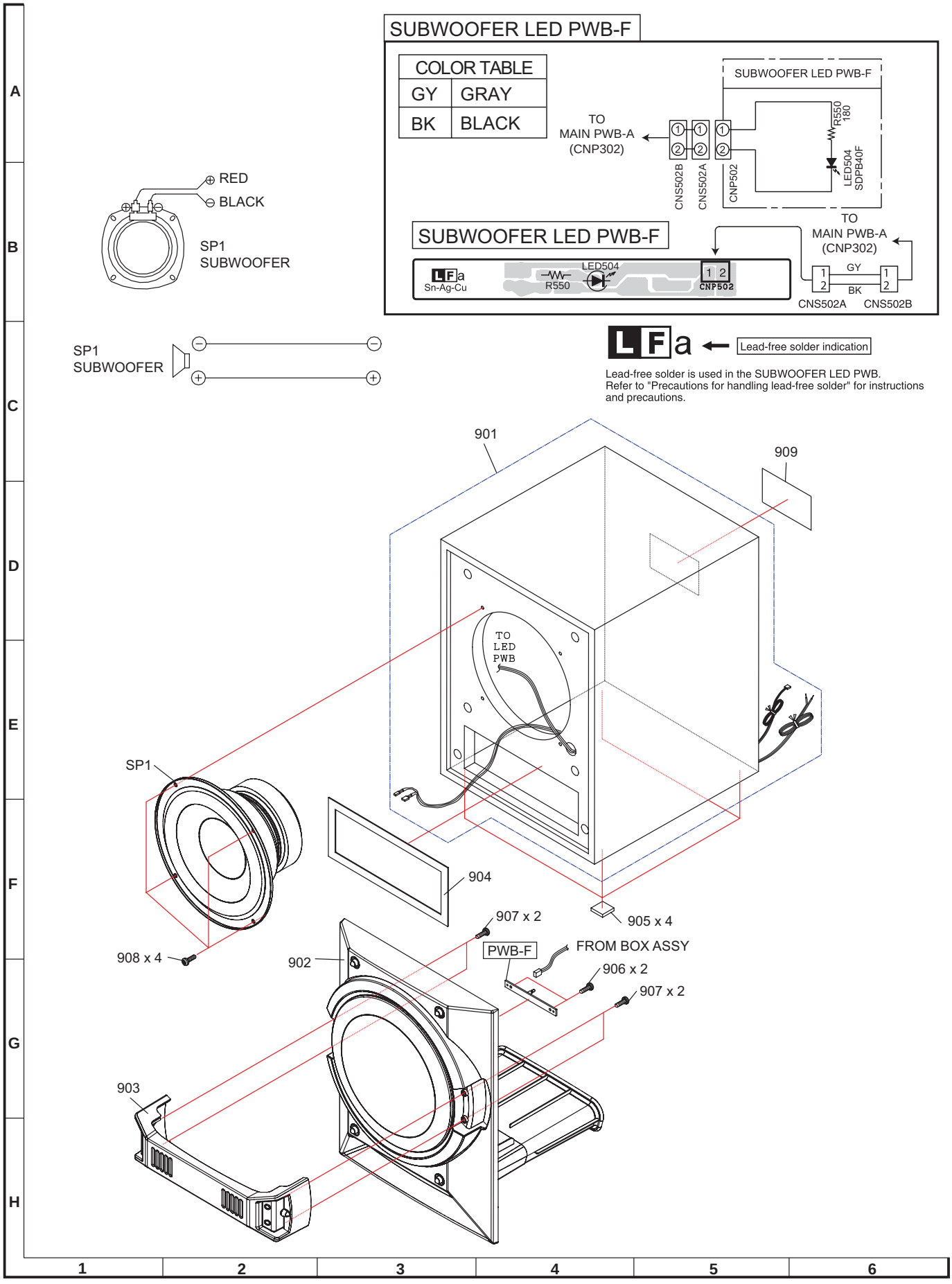
Lead-free solder is used in the FRONT SPEAKER LED PWB.
Refer to "Precautions for handling lead-free solder" for instructions and precautions.



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[11] FRONT SPEAKER BOX PARTS					
901	CPNLSA098AW01				Front Panel Ass'y
902	GBOXSA224AW01				Wooden Box Ass'y
903	PCUSGA020AWZZ	AB			Cushion, Leg
904	PFLT-A012AWZZ	AC			Felt
905	TSPC-B324AWZZ				Label, Specification
906	XEBY730P10000	AA			Screw, M3 x 10mm
907	XEPY740P16000	AB			Screw, M4 x 16mm
908	XESY730P10000	AA			Screw, M3 x 10mm
SP1,2	RSP-ZA323AWZZ				Woofer
SP3,4	RSP-ZA321AWZZ	AT			Tweeter

CD-SW440N

[12] SUBWOOFER BOX PARTS



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[12] SUBWOOFER BOX PARTS					
901	GBOXSA225AW01				Wooden Box Ass'y
902	CPNLSA097AW02				Front Panel Ass'y
903	HDECQA533AWSA				Cover, Decoration
904	PCUSSA158AWZZ				Port Cushion
905	PCUSGA020AWZZ	AB			Cushion, Leg
906	XEBY726P08000	AA			Screw, M2.6x8mm
907	XEBY726P12000	AA			Screw, M2.6x12mm
908	XMBY740P16000	AC			Screw, M4X16mm
909	TSPC-B325AWZZ				Label, Specification
SP1	RSP-ZA322AWZZ				Subwoofer
[13] ACCESSORIES / PACKING PARTS					
1	92LFANT1535A	AF			FM Antenna
2	QANTLA004AWZZ	AH			AM Loop Antenna
3	RRMCGA205AWSA	AR			Remote Control
4	SPAKAA239AWZZ	AN			Packing Add, Main Set
5	SPAKAA240AWZZ	AL			Packing Add, Front Speaker
6	SPAKAA245AWZZ	AK			Packing Add, Subwoofer
7	SPAKCA721AWZZ	AV			Packing Case
8	SPAKP0032AWZZ	AF			Polyethylene Bag, Unit
9	SSAKAA011AWZZ	AB			Polyethylene Bag, Accessories
10	SSAKHA170AWZZ	AE			Polyethylene Bag, Subwoofer
11	SSAKHA077AWZZ	AD			Polyethylene Bag, Front Speaker
12	TCAUZA160AWZZ	AC			Special Notes
13	TiNSZA536AWZZ	AD			Operation Manual [For Central & South America]
13	TiNSZA625AWZZ				Operation Manual [For U.S.A]
14	TLABZB040AWZZ				Label, Pop [For U.S.A]
14	TLABZB050AWZZ	AD			Label, Pop [For Central & South America]

[14] P.W.B ASSEMBLY

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	REMARK (interchangeable)	DESCRIPTION
PWB-A	92LPWB7792MANS	-			S Category	Main
⚠ PWB-B	92LPWB7792PWRS	-			S Category	Power (B1/ Display/Tape (B2)
PWB-C	RUiTKA036AWZZ	-			S Category	Servo
PWB-D	92LPWB7119CDUS	-			S Category	iPod
PWB-E	92LPWB6514LEDS	-			S Category	Front Speaker LED
PWB-F	92LPWB7285LEDS	-			S Category	Subwoofer LED

[15] OTHER SERVICE PARTS

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
	UDSKA0004AFZZ	AZ			CD Optical Pickup Lens Cleaner Disc

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